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U. S. DEPARTMENT OF THE INTERIOR
PROTOTYPE OIL SHALE LEASING PROGRAM

OIL SHALE TRACT C-b
ENVIRONMENTAL MONITORING REPORT
(January 1983 through May 1983)

Submitted to:

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USDI Bureau of Land Management
Onshore Minerals Personnel Division
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By:

CATHEDRAL BLUFFS SHALE OIL COMPANY

TENNECO SHALE OIL COMPANY
OCCIDENTAL OIL SHALE, INC.

July 15, 1983

VOLUME I

TABLE OF CONTENTS

Introduction

1.0 Development Monitoring Programs

1.1 Tract Photography

1.2 Hydrology and Water Quality

1.2.1 Levels and Flows

1.2.1.1 Surface Streams
1.2.1.2 Springs and Seeps
1.2.1.3 Alluvial Wells
1.2.1.4 Bedrock Wells
1.2.1.5 Impoundments/Land Applications/ Reinjection/Discharge
1.2.1.6 Shaft and Mine Water
1.2.1.7 Shale Dumps
1.2.1.8 Supplemental Water Data - Hydrology

1.2.2 Water Quality

1.2.2.1 Surface Streams
1.2.2.2 Springs and Seeps
1.2.2.3 Alluvial Wells
1.2.2.4 Bedrock Wells
1.2.2.5 Impoundments/Land Applications/ Reinjection/Discharge
1.2.2.6 Shaft and Mine Water
1.2.2.7 Sediments

1.2.3 Water Quality Assurance
1.2.4 Special Reports

INTRODUCTION

Regular environmental reporting for Oil Shale Tract C-b during the interim monitoring period consists of two six-month data reports submitted February 15 and July 15 for 1983. Limited data analyses were included in the February report.

The Interim Monitoring Program was initiated in March 1982. The data reported here fulfill the environmental monitoring requirements specified for the interim monitoring period by the DMM-OS. Data are reported for the period of January 1983 to May 1983. Data stored in the computerized data base and summary tables presented in this report are correct to the best of our knowledge. Any errors found in previously reported data appear in the Data Corrections section.

Data not previously reported for dates prior to this report period are presented in the Supplemental Data Sections for meteorology, air quality, hydrology and lab analyses.

1.0 Environmental Monitoring Program

The Development Monitoring Program was discontinued in March 1982 and replaced with an Interim Monitoring Program during a period of reduced site activity at the C-b Tract. Each section will specify changes made to the monitoring program.

TRACT PHOTOGRAPHY

1.1 Tract Photography

Surface and aerial photography programs were discontinued during the interim monitoring period. They will be reinitiated when Tract activities start up.

HYDROLOGY &
WATER QUALITY

1.2 Hydrology and Water Quality

To assist in interpretation of hydrologic and water quality data, the reader must understand that two items in particular may affect monitoring program results: intentional flooding of the V/E shaft and water management practices. The V/E shaft was allowed to flood in September 1981; water levels have reached the equilibrium level shown in Figure 1.2.1.6-1. Direct discharge from Ponds A/B into Piceance Creek via Little Gardenhire Gulch was utilized to dispose of excess mine water from the Production and Service Shafts.

Hydrologic and water quality monitoring frequency and laboratory analysis requirements vary by type and location of sample collection station. The requirements from government agencies also vary regarding purpose of monitoring. Tract C-b monitoring requirements have been detailed in these documents as follows:

IMP - Interim Monitoring Program prepared for the Oil Shale Office (OSO).

WAP - Water Augmentation Plan prepared for the State of Colorado Water Court, Division 5.

NPDES - National Pollutant Discharge Elimination System monthly report prepared for the State of Colorado Water Quality Control Division.

Data reported consists of waters sampled during January through May 1983; these data are presented in tabular and plot form. Levels and Flows Section 1.2.1 contains flows, levels and field measurements of temperature, pH and specific conductance within each sub-section. Table 1.2-1 contains water monitoring requirements by station designation for sample frequencies of levels or flows and water quality. This table replaced Exhibit B, which displayed monitoring requirement for the WAP during development on C-b Tract. Within each sub-section of Water Quality Section 1.2.2, the required frequency is explained and parameters listed for analyses during the Interim Monitoring Program (IMP). Table 1.2-2 is an index of deep wells sampled in and around C-b Tract with lists of page numbers locating levels data, time series plots of levels and water quality for each well by aquifer or zone and location.

Exhibit A (map) presented in jacket Figure 1.2-1 provides location of off-tract sampling sites. Maps are included in each water type sub-section for locating on or near Tract sampling sites. Station coordinates and four-digit computer codes for collection stations sampled periodically since baseline are presented in Section 3.0, Data Automation.

Water quality files in the RAMIS data base system, are continuing extensive quality assurance review with updates being made to erroneous values, data stored under wrong location code, and field data that was not input to these files. This procedure is a means of assuring all data stored

in RAMIS files are correct to the best of our knowledge. Corrected data tables and new statistics (maximum, minimum, mean and standard deviation values) of the water analysis suite will be presented in the next data analysis report, January 1984.

Geothermal Surveys, Inc. (GSI), South Pasadena, California, performed downhole temperature logging of coreholes 21X-12, 22X1 and 43X2 on April 14 and 15, 1983. A report containing the results of each corehole and recommendations for monitoring is presented at the end of this Hydrology volume in Special Reports Section 1.2.4. These wells were recompleted this summer (1983); documentation and monitoring frequencies will be reported at a later date.

TABLE 1.2-1
Interim Monitoring Program
Water Monitoring Requirements by Designation
Observation Wells

Computer Code	Designation	Owner of Well	Formation	Frequency--- Levels	Frequency--- Water Quality	Measured By
WA01	A-1	TOSCO	Alluvium	M	S/F	A
WA02	A-2	TOSCO	"	M	S/F	A
WA03	A-3	CB	"	M	S/F	A
WA04	A-4	CB	"	Dry	S/F	A
WA05	A-5	CB	"	M	S/F	A
WA55	A-5A	CB	"	M	S/F	A
WA56	A-5B	CB	"	M	S/F	A
WA06	A-6	TOSCO	"	M	S/F	A
WA07	A-7	CB	"	M	S/F	A
WA08	A-8	TOSCO	"	M	S/F	A
WA09	A-9	CB	"	M	S/F	A
WA10	A-10	CB	"	Dry	S/F	A
WA11	A-11	CB	"	M	S/F	A
WA12	A-12	CB	"	M	S/F	A
WA13	A-13	CB	"	Dry	S/F	A
WD02	CB-2	CB	UPC1/UINTA (COMPOSITE)	M	-	A
WE03	CB-3	CB	UPC2	M	-	A
WE04	CB-4	CB	UPC2	M	-	A
WG12	SG-1-1	CB	LPC3	C	S_1	A
WD12	SG-1-2	CB	UPC1	C	S_1	A
WE11	SG-1A-1	CB	UPC2	S	-	A
WD11	SG-1A-2	CB	UPC1	S	-	A
WE61	SG-6-1	CB	UPC2	M	-	A
WG61	SG-6-2	CB	LPC3	M	-	A
WD61	SG-6-3	CB	UPC1	M	-	A
WY81	SG-8R	CB	Lower Aquifer	M	S_1	A
WG91	SG-9-1	CB	LPC3	B	-	A
WE91	SG-9-2	CB	UPC2	B	-	A
WD91	SG-9-3	CB	UPC1	B	-	A
WC91	SG-9-4	CB	Uinta	B	-	A
WG51	SG-10A-1	CB	LPC3	M	-	A
WE51	SG-10A-2	CB	UPC2	M	-	A
WD51	SG-10A-A	CB	UPC1/CON.UINTA	M	-	A
WD90	SG-10	CB	UN.UINTA	C	Q_1	A
WG52	SG-11-1	CB	LPC3	M	-	A
WE52	SG-11-2	CB	UPC2	M	-	A
WD52	SG-11-3	CB	UPC1	M	-	A
WG17	SG-17-1	CB	LPC3	B	-	A
WE17	SG-17-2	CB	UPC2	B	-	A
WD17	SG-17-3	CB	UPC1	B	-	A
WC17	SG-17-4	CB	Uinta	B	-	A
WD57	SG-17A	CB	UPC1	B	S_1	A
WG18	SG-18A-1	CB	LPC3	Q	-	A
WE18	SG-18A-2	CB	UPC2	Q	-	A
WD18	SG-18A-3	CB	UPC1	Q	-	A
WD19	SG-19	CB	UPC1	M	-	A
WG20	SG-20-1	TOSCO	LPC3	CAPPED	-	A
WE20	SG-20-2	TOSCO	UPC2	M	S_1	A
WD20	SG-20-3	TOSCO	UPC1	M	S_1	A
WH21	SG-21-1	CB	LPC4	M	-	A
WG21	SG-21-2	CB	LPC3	M	-	A
WE21	SG-21-3	CB	UPC2	M	-	A
WD21	SG-21-4	CB	UPC1	M	-	A
WV37	AT-1A	CB	COMPOSITE	M	-	A
WX38	AT-1A-1	CB	UPPER AQUIFER	M	-	A
WY45	AT-1C-1	CB	LOWER AQUIFER	W	Q	A
WY46	AT-1C-2	CB	LOWER AQUIFER	W	-	A
WX44	AT-1C-3	CB	UPPER AQUIFER	C	Q	-
WG41	AT-1D-1	CB	LPC3	B	-	A
WE41	AT-1D-2	CB	UPC2	B	-	A
WD41	AT-1D-3	CB	UPC1	B	-	A
WD14	14X-7-1	CB	UPC1	M	-	A
WD15	14X-7-2	CB	UPC1	B	-	A
WV07	21X-12	CB	COMPOSITE	S	-	A
WV08	22X-1	CB	COMPOSITE	S	-	A
WI19	22X-17	CB	UPC2 & LPC3	M	-	A
WI17	24X-17	CB	UPC2 & LPC3	M	-	A

Computer Code	Designation	Owner of Well	Formation	Frequency Levels	Frequency Water Quality	Measured By
WW22	31X-12	CB	UN. UINTA	W	M_1/S	A
WX32	32X-12	CB	UPC2	C	S_1	A
WW32	32Y-12	CB	UN. UINTA	M	Q_1	A
WW13	41X-13	CB	UN. UINTA	W	M_1/S	A
WV09	43X-2	CB	COMPOSITE	S	-	A
WV10	TG-71-1	CB	COMPOSITE	Q	-	A
WX75	TH-5**	US	UPPER AQUIFER	Q	-	A
WX64	TH75-5A	US	" "	Q	-	A
WY64	TH75-5B	US	LOWER "	Q	-	A
WX69	TH75-9A	US	UPPER "	Q	-	A
WY69	TH75-9B	US	LOWER "	Q	-	A
WY68	TH75-10B	US	" "	Q	-	A
WX65	TH75-13A	US	UPPER "	Q	-	A
WY65	TH75-13B	US	LOWER "	Q	-	A
WX67	TH75-18A	US	UPPER "	Q	-	A
WY67	TH75-18B	US	LOWER "	Q	-	A
WX72	TH75-15A	US	UPPER "	Q	-	A
WY72	TH75-15B	US	LOWER "	Q	-	A
WY66	EQUITY 1	EQUITY	" "	Q	-	A
WY70	EQUITY SIA	EQUITY	" "	Q	-	A
WV01	GREENO-404	SHELL	COMPOSITE	Q	-	A
WX71	CER RB-D-02	US	UPPER AQUIFER	Q	-	A
WY71	CER RB-D-03	US	LOWER "	Q	-	A
WY75	TG-71-3	TOSCO	" "	Q	-	A
WY78	TG-71-4	"	" "	Q	-	A
WY76	TG-71-5	"	" "	Q	-	A
WV02	OLDLAND 3	"	COMPOSITE	Q	-	A
WV03	GP-17X-BG	US	"	Q	-	A
WV04	BUTE 25	TOSCO	"	Q	-	A
WV05	LIBERTY BELL 12	TOSCO	"	Q	-	A
WX73	UNION 8-1	UNION	UPPER AQUIFER	Q	-	A
WY77	GETTY 9-4D	GETTY	LOWER "	Q	-	A
WY79	EQUITY BS-13	EQUITY	" "	Q	-	A

**Colony TH-5 replaced Colony 12-596

B = Bimonthly
M = Monthly
S = Semiannual
S/F = Semiannual field measurements
C = Continuous
Q = Quarterly
A = Applicant
M/D = Monthly if not diverted
M_1 = Monthly for field measurements + Fluoride
Q_1 = Quarterly for field measurements + Fluoride
S_1 = Semiannual but may be changed pending evaluation of hydrographs

Stream Flow

Computer Code	Station Number	Description	Frequency: Discharge	Frequency: Water Quality	Measured By
WU07 (M)	09306007	Piceance Creek Below Rio Blanco	C	P	F
WU22	09306022	Stewart Gulch Above West Fork	C	P	F
WU36	09306036	Sorghum Gulch at Mouth	C	P	F
WU39	09306039	Cottonwood Gulch	C	P	F
WU42 (M)	09306042	Tributary of Piceance Creek (Little Gardenhire Gulch)	C	P	F
WU52	09306052	Scandard Gulch at Mouth	C	P	F
WU58	09306058	Willow Creek	C	P	F
WU61 (M)	09306061	Piceance Creek above Hunter Creek	C	P	F

(M) = Major Site

Springs and Seeps

Computer Code	Designation	Frequency: Discharge	Frequency: Water Quality	Measured By
WS01	CB S-1	M/D	M/D	A
WS02	CB S-2	M	M	A
WS03	CB S-3	M/D	M/D	A
WS04	CB S-4	M	M	A
WS06	CB S-6	M	M	A
WS66	CB S-6A	M	M	A
WS07	CB S-7	M	M	A
WS08	CB S-8	M	M	A
WS09	CB S-9	M/D	M/D	A
WS10	CB S-10	M/D	M/D	A
WS11	CB SEEP A	M/D	M/D	A
WS12	CB S-102	M	M	A
WS21	CER-1	Q	-	WRD
WS22	B-3	Q	-	WRD
WS24	F-3	Q	-	WRD
WS26	W-4	Q	-	WRD
WS28	CER-7	Q	-	WRD
WS30	P3 & P3A	Q	-	WRD
WS31	CER-6	Q	-	WRD
WS33	S-2	Q	-	WRD
WS34	W-3	Q	-	WRD

Precipitation

Computer Code	Designation	Name of Station	Frequency	Measured By
AB23	023	CB Station 023	C	A
AD28	028	Lysimeter site at Shale Pile	C	A

B = Bimonthly
M = Monthly
S = Semiannual
S/F = Semiannual field measurements
C = Continuous
Q = Quarterly
A = Applicant
M/D = Monthly if not diverted.
F = USGS
P = Periodically measured
WRD = Water Resources Division of the USGS

TABLE 1.2-2

Deep Well Index

Aquifer or Zone	General Location	Computer Code	Well Designation	Levels Data on Page	Levels Plot on Page	Water Quality Data on Page
Uinta	Close-In	WC17	SG-17-4	I-87	I-123	No Data
		WC91	SG-9-4	I-87	I-120	No Data
Upper	Close-In	WX38	AT-1A-1	I-97	I-109	No Data
		WX44	AT-1C-3	I-92	I-110	I-463
	Remote	WX64	TH75-5A	I-93	I-130	No Data
		WX65	TH75-13A	I-93	I-131	No Data
		WX67	TH75-18A	I-93	I-132	No Data
		WX69	TH75-9A	I-93	I-133	No Data
		WX71	CER RB-D-02	I-93	I-134	No Data
		WX72	TH75-15A	I-93	I-135	No Data
		WX73	UNION 8-1	I-93	I-136	No Data
		WX75	TH-5	No Data	I-137	No Data
Lower	Close-In	WY44	AT-1	I-94,I-99	I-111	No Data
		WY45	AT-1C-1	I-94	I-110	I-467
		WY46	AT-1C-2	I-94	I-110	No Data
		WY81	SG-8R	I-94	I-119	No Data
	Remote	WY64	TH75-5B	I-95	I-139	No Data
		WY65	TH75-13B	I-95	I-140	No Data
		WY66	EQUITY 1	I-95	I-141	No Data
		WY67	TH75-18B	I-95	I-142	No Data
		WY68	TH75-10B	I-95	I-143	No Data
		WY69	TH75-9B	I-95	I-144	No Data
		WY70	EQUITY S1A	I-95	I-145	No Data
		WY71	CER RB-D-03	I-95	I-146	No Data
		WY72	TH75-15B	I-95	I-147	No Data
		WY75	TG-71-3	I-95	I-148	No Data
		WY76	TG-71-5	I-95	I-149	No Data
		WY77	GETTY 9-40	I-95	I-150	No Data
		WY78	TG-71-4	I-95	I-151	No Data
		WY79	EQUITY BS-13	I-95	I-152	No Data
Composite	Close-In	WV07	2iX12	No Data	No Data	No Data
		WV08	22X-1	No Data	No Data	No Data
		WV09	43X-2	No Data	No Data	No Data
		WV10	TG-71-1	I-96	I-159	No Data
		WV37	AT-1A	I-96	I-109	No Data
	Remote	WV01	GREENO 404	I-96	I-154	No Data
		WV02	OLDLAND 3	I-96	I-155	No Data
		WV03	GP-17X-BG	I-96	I-156	No Data
		WV04	BUTE 25	I-96	I-157	No Data
		WV05	LIBERTY BELL 12	I-96	I-158	No Data
		WV06	TOSCO WELL	No Data	No Data	No Data
		WV40	AT-1B	No Data	I-109	No Data
UPC1	Close-In	WD02	CB-2	I-88	I-113	No Data
		WD11	SG-1A-2	I-88	I-116	No Data
		WD12	SG-1-2	I-88,I-101	I-117	No Data
		WD14	14X-7-1	I-88	I-127	No Data
		WD15	14X-7-2	I-88	I-127	No Data
		WD17	SG-17-3	I-88	I-123	No Data
		WD18	SG-18A-3	I-88	I-124	No Data
		WD19	SG-19	I-88	I-113	No Data
		WD20	SG-20-3	I-89	I-125	No Data
		WD21	SG-21-4	I-89	I-126	No Data
		WD41	AT-1D-3	I-89	I-111	No Data
		WD51	SG-10A-A	I-89	I-121	No Data
		WD52	SG-11-3	I-89	I-122	No Data
		WD57	SG-17-A	I-89	I-114	No Data
		WD61	SG-6-3	I-89	I-118	No Data
		WD90	SG-10	I-89,I-101	I-114	I-462
		WD91	SG-9-3	I-89	I-120	No Data

TABLE 1.2-2 (Contd)

Deep Well Index

Aquifer or Zone	General Location	Computer Code	Well Designation	Levels Data on Page	Levels Plot on Page	Water Quality Data on Page
	Close-In	WW13	41X-13	I-166	I-114	I-478
	(Seepage)	WW22	31X-12	I-166	I-114	I-478
		WW32	32Y-12	I-166	No Data	No Data
UPC2	Close-In	WE03	Cb-3	I-90	I-113	No Data
		WE04	Cb-4	I-90	I-114	No Data
		WE11	SG-1A-1	I-90	I-116	No Data
		WE17	SG-17-2	I-90	I-123	No Data
		WE18	SG-18-2	I-90	I-124	No Data
		WE20	SG-20-2	I-90	I-125	No Data
		WE21	SG-21-3	I-90	I-126	No Data
		WE41	AT-1D-2	I-90	I-111	No Data
		WE51	SG-10A-2	I-90	I-121	No Data
		WE52	SG-11-2	I-90	I-122	No Data
		WE61	SG-6-1	I-90	I-118	No Data
		WE91	SG-9-2	I-90	I-120	No Data
		WX32	32X-12	I-92	I-115	I-463
	Close-In	WI17	24X-17	I-165	I-163	No Data
	(Injection)	WI18	11X18	No Data	No Data	No Data
		WI19	22X17	I-165	I-164	No Data
LPC3	Close-In	WG12	SG-1-1	I-91, I-104	I-117	No Data
		WG17	SG-17-1	I-91	I-123	No Data
		WG18	SG-18A-1	I-91	I-124	No Data
		WG20	SG-20-1	I-91	No Data	No Data
		WG21	SG-21-2	I-91	I-126	No Data
		WG41	AT-1D-1	I-91	I-111	No Data
		WG51	SG-10A-1	I-91	I-121	No Data
		WG52	SG-11-1	I-91	I-122	No Data
		WG61	SG-6-2	I-91	I-118	No Data
		WG91	SG-9-1	I-91	I-120	No Data
LPC4	Close-In	WH21	SG-21-1	I-91	I-126	No Data

R. 100 W | R. 99 W | R 98 W | R 97 W | R 96 W | R 95 W

R 94 W

R 101 W | R 100 W | R 99 W | R 98 W | R 97 W | R. 96 W. | R 95 W | R 94 W

T 2 N

T 1 N

T 1 S

T 2 S

T 3 S

T 4 S

T 5 S

T 6 S

WU55 WA01 WS06 WS66 WS07 AB20 AC20 WA02 WU58 WA05 WU42 WA06 WG20 WS03 WU07 WA07 WU39 WD19 WU36 WD12 WE11 WS01 WA08 WA03 WS08 WD01 WD02 WE03 WU52 WU22 WU28 WS31 WS36 WS09 WD61 WA11 WA09 WS02 WY81 WE01 WX44 WD52 WG51 WS04 WU50 AB23 WS32 WS10 WD10 WA04 WA13 WA10 WU33 WE04 WU15 WS34 WA12 A-12 WE17 WH21 WU25

Co Tract

Corral Gulch (CG1) WR04

WU62 BT03

Meeker 2 (M)

Hie Hil - (LH) WR01

WX64 TH75-5A TH75 5B WY64 6200 WU00

WX67 TH75-18A WY67 TH75-18B WY68 TH75-10B

WX69 TH75 9A TH75 9B WY69

WX65 TH75 3A TH75-3B WY65 WS21 WU61 6.6 WY79 EQUITY WY66 WV01 GREENO 4-4 BT02

Co TRACT

WS22 WS23 WS33 WX71 WY71 F-3 WS24 WX72 TH75-15A TH75-15B WY72 WY70 W-4 WS26 TG71-3 WY75 SG-18A WD18 WE18 WG18 TG71-4 WY78 ER-7 WS28 TG71-5 WY76 WS37 OLDLAND 3 WV02 WS30 WV03

F-4A WS25 F10 4 WS35 BUTE 25 WV04 WV05 LIB-RTY BELL #2 WS27 WS29 WR03 WY77 WX73 TH-5 WX75 WR07 WR05 WR06

ROAN PLATEAU

DOUGLAS CREEK ARCH

PICEANCE CREEK BASIN

DOUGLAS CREEK ARCH

BOOK CLIFFS

BOOK CLIFFS RESERVE

SAWATCH MTN

GRAND MESA

UNCOMPAHGRE PLATEAU

WHITE RIVER PLATEAU

PARACHUTE CREEK

DEBEQUE

CANYON

ANTICLINE

RIDGE

SHALE

CLIFFS

RESERVE

LEGEND

Symbol	Description
●	Traffic counter stations
◀	Stream gaging station (prefix 9130 omitted from station No.)
●	Observation well (may have multiple piezometers)
●	Spring or seep
★	Precipitation station
	Paved roads
	Other roads and trails
	Topographic basin of Piceance Creek

NOTES

Refer to Table for explanation of monitoring station designations, site numbers, frequency of field measurements, and reference making measurements.

EXHIBIT A

KEY FEATURES OF HYDROLOGIC MONITORING PROGRAM FOR Cb TRACT

PICEANCE CREEK BASIN
WATER DIVISION NO. 5
STATE OF COLORADO

DECEMBER 1978

LEVELS AND
FLOWS

1.2.1 Levels and Flows

Hydrologic flows of surface streams, springs and seeps, and water levels in alluvial wells, bedrock wells and impoundments are reported in the sub-sections which follow. Documents and/or permits (IMP, WAP, and NPDES) that require monitoring of these water types are identified within each sub-section.

Tabulated data and time series plots of all water locations follow in respective sub-sections.

1.2.1.1 Surface Streams

Daily mean discharge data for eight major surface water gauging stations monitored for the Interim Monitoring Program (IMP) are included in this section. Location of these monitoring stations are shown on Figure 1.2.1.1-1. Data presented cover 1983 water year, October 1982 through April 1983. The following table lists stations and the pages summarizing data.

TABLE 1.2.1.1-1

Guide for Surface Water Gauging Stations
Discharge Data

Computer Code	Stations for Interim Monitoring	Tabulated Data Presented On Page
WU07	09306007	I-17
WU22	09306022	I-18
WU36	09306036	I-19
WU39	09306039	I-20
WU42	09306042	I-21
WU52	09306052	I-22
WU58	09306058	I-23
WU61	09306061	I-24

Stations WU15, WU25, WU28, WU33, WU45, and WU50 were discontinued during the Interim Monitoring Program.

U.S.G.S STREAM GAUGE DEVELOPMENT MONITORING NETWORK

Figure 1.2.1.1-1

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306007

PICEANCE CREEK BELOW RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	15.0	9.3	8.4	6.0	5.7	8.3	14.0					
2	12.0	9.0	7.9	6.0	5.9	9.8	14.0					
3	12.0	8.3	7.9	6.1	6.1	8.0	14.0					
4	12.0	8.5	7.4	6.1	6.3	7.7	14.0					
5	13.0	7.9	7.6	6.2	6.5	7.9	13.0					
6	11.0	8.0	7.7	6.2	6.2	8.7	13.0					
7	11.0	8.1	7.7	6.5	5.9	7.7	13.0					
8	11.0	8.2	7.8	6.5	5.9	7.9	14.0					
9	11.0	8.5	7.1	6.8	5.9	8.3	16.0					
10	11.0	9.3	8.1	6.7	6.1	9.7	16.0					
11	10.0	10.0	8.0	6.7	6.1	14.0						
12	10.0	8.8	7.8	6.6	6.4	16.0						
13	11.0	8.5	6.7	6.6	6.1	17.0						
14	11.0	8.5	7.0	6.5	5.8	24.0						
15	11.0	8.3	7.2	6.5	5.8	25.0						
16	10.0	8.8	7.2	6.4	6.1	19.0						
17	9.8	8.2	6.6	6.4	5.8	19.0						
18	9.4	8.7	6.5	6.1	5.8	17.0						
19	9.4	9.1	6.7	5.5	6.0	15.0						
20	9.4	8.6	6.9	5.5	5.5	14.0						
21	9.2	8.8	7.0	5.5	5.5	13.0						
22	8.9	8.4	7.6	5.5	5.7	14.0						
23	9.0	8.3	8.0	5.5	6.0	14.0						
24	8.6	8.3	6.8	5.8	7.1	13.0						
25	8.3	8.3	7.3	5.7	7.7	12.0						
26	8.3	8.3	7.8	5.7	6.8	13.0						
27	9.8	8.0	8.3	6.0	6.8	13.0						
28	9.1	7.6	7.5	6.0	7.4	13.0						
29	8.6	8.3	6.9	6.0	0.0	12.0						
30	8.9	8.7	6.4	6.2	0.0	12.0						
31	9.1	0.0	5.9	5.9	0.0	14.0						
TOTAL*	317.8	255.6	227.7	189.7	172.9	407.0						
WATER YEAR TOTAL				MEAN								

*CFS - Days

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306022

STEWART GULCH ABOVE WEST FORK NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.74	.94	1.2	1.2	1.4	1.9	1.5					
2	.74	.94	1.2	1.2	1.4	2.7	1.7					
3	.81	.94	1.2	1.2	1.4	1.7	1.7					
4	.81	.94	1.2	1.2	1.4	1.6	1.6					
5.	.81	.95	1.2	1.2	1.4	1.5	1.6					
6	.81	.96	1.2	1.2	1.4	1.6	1.6					
7	.81	.96	1.2	1.2	1.4	1.5						
8	.82	.97	1.2	1.2	1.4	1.6						
9	.82	.98	1.2	1.2	1.5	1.8						
10	.82	.98	1.3	1.3	1.5	1.4						
11	.82	.99	1.3	1.3	1.5	1.1						
12	.89	1.00	1.3	1.3	1.5	1.1						
13	.89	1.00	1.3	1.3	1.5	0.96						
14	.96	1.00	1.3	1.3	1.5	0.83						
15	.90	1.00	1.2	1.3	1.5	0.68						
16	.97	1.00	1.2	1.3	1.5	0.53						
17	.90	1.10	1.3	1.3	1.5	0.41						
18	.91	1.10	1.3	1.3	1.6	0.41						
19	.91	1.10	1.3	1.3	1.6	0.3						
20	.91	1.10	1.3	1.3	1.6	0.41						
21	.91	1.10	1.3	1.3	1.6	0.34						
22	.91	1.10	1.3	1.4	1 7	0.1						
23	.92	1.20	1.3	1.4	1.9	1.2						
24	.92	1.20	1.3	1.4	2.0	1.5						
25	.92	1.20	1.3	1.4	1.9	1.3						
26	.92	1.20	1.3	1.4	1.6	0.92						
27	.93	1.20	1.2	1.4	1.6	1.1						
28	.93	1.20	1.2	1.4	1.8	1.3						
29	.93	1.20	1.2	1.4	0.0	1.3						
30	.93	1.20	1.2	1.4	0.0	1.4						
31	.93	0.00	1.2	1.4	0.0	1.5						
TOTAL*	27.21	31.74	38.7	40.4	43.6	35.99						
WATER YEAR TOTAL				MEAN								

*CFS - Da

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306036

SORGHUM GULCH AT MOUTH NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	0.0	0.0	0.0	0.0	0.0	0.8						
2	0.0	0.0	0.0	0.0	0.0	0.34						
3	0.0	0.0	0.0	0.0	0.0	0.42						
4	0.0	0.0	0.0	0.0	0.0	0.25						
5	0.0	0.0	0.0	0.0	0.0	1.40						
6	0.0	0.0	0.0	0.0	0.0	0.38						
7	0.0	0.0	0.0	0.0	0.0	0.29						
8	0.0	0.0	0.0	0.0	0.0	0.0						
9	0.0	0.0	0.0	0.0	0.0	0.0						
10	0.0	0.0	0.0	0.0	0.0	0.74						
11	0.0	0.0	0.0	0.0	0.0	4.8						
12	0.0	0.0	0.0	0.0	0.0	2.6						
13	0.0	0.0	0.0	0.0	0.0	1.5						
14	0.0	0.0	0.0	0.0	0.0	0.0						
15	0.0	0.0	0.0	0.0	0.0	0.0						
16	0.0	0.0	0.0	0.0	0.0	0.0						
17	0.0	0.0	0.0	0.0	0.0	0.0						
18	0.0	0.0	0.0	0.0	0.0	0.0						
19	0.0	0.0	0.0	0.0	0.0	0.0						
20	0.0	0.0	0.0	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.0	0.0						
22	0.0	0.0	0.0	0.0	0.0	0.0						
23	0.0	0.0	0.0	0.0	0.64	0.0						
24	0.0	0.0	0.0	0.0	0.82	0.0						
25	0.0	0.0	0.0	0.0	0.64	0.0						
26	0.0	0.0	0.0	0.0	0.0	0.0						
27	0.0	0.0	0.0	0.0	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.65	0.0						
29	0.0	0.0	0.0	0.0	0.0	0.0						
30	0.0	0.0	0.0	0.0	0.0	0.0						
31	0.0	0.0	0.0	0.0	0.0	0.0						
TOTAL*	0.0	0.0	0.0	0.0	2.75	13.53						
WATER YEAR TOTAL				MEAN								

*CFS - Days

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306039

COTTONWOOD GULCH NEAR RANGELY, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	0.0	0.0	0.0	0.0	0.0	0.2	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.5	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.2	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.0	0.0						
7	0.0	0.0	0.0	0.0	0.0	0.0						
8	0.0	0.0	0.0	0.0	0.0	0.0						
9	0.0	0.0	0.0	0.0	0.0	0.18						
10	0.0	0.0	0.0	0.0	0.0	0.84						
11	0.0	0.0	0.0	0.0	0.0	2.1						
12	0.0	0.0	0.0	0.0	0.0	1.7						
13	0.0	0.0	0.0	0.0	0.0	0.29						
14	0.0	0.0	0.0	0.0	0.0	0.0						
15	0.0	0.0	0.0	0.0	0.0	0.0						
16	0.0	0.0	0.0	0.0	0.0	0.0						
17	0.0	0.0	0.0	0.0	0.0	0.0						
18	0.0	0.0	0.0	0.0	0.0	0.0						
19	0.0	0.0	0.0	0.0	0.0	0.0						
20	0.0	0.0	0.0	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.0	0.0						
22	0.0	0.0	0.0	0.0	0.0	0.0						
23	0.0	0.0	0.0	0.0	0.05	0.0						
24	0.0	0.0	0.0	0.0	0.21	0.0						
25	0.0	0.0	0.0	0.0	0.20	0.0						
26	0.0	0.0	0.0	0.0	0.0	0.0						
27	0.0	0.0	0.0	0.0	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.20	0.0						
29	0.0	0.0	0.0	0.0	0.0	0.0						
30	0.0	0.0	0.0	0.0	0.0	0.0						
31	0.0	0.0	0.0	0.0	0.0	0.0						
TOTAL*	0.0	0.0	0.0	0.0	0.65	6.01						

*CFS - Days

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306042

PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	1.00	0.39	0.68	0.75	0.80	0.89	0.11					
2	0.80	0.45	0.67	0.73	0.81	0.89	0.29					
3	0.80	0.56	0.67	0.72	0.81	0.77	0.36					
4	0.80	0.54	0.65	0.71	0.83	0.76	0.27					
5	0.76	0.77	0.63	0.71	0.80	0.90	0.32					
6	0.69	0.75	0.62	0.73	0.81	0.87	0.31					
7	0.70	0.77	0.65	0.71	0.83	0.80	0.36					
8	0.64	0.87	0.66	0.71	0.84	0.76	0.06					
9	0.62	0.84	0.69	0.71	0.86	0.75	0.07					
10	0.58	0.90	0.68	0.71	0.87	1.00	0.11					
11	0.60	0.93	0.67	0.72	0.87	1.80						
12	0.56	1.00	0.74	0.72	0.87	0.90						
13	0.51	0.98	0.80	0.77	0.87	0.84						
14	0.49	1.10	0.82	0.83	0.87	0.65						
15	0.47	0.90	0.81	0.83	0.87	0.07						
16	0.46	0.80	0.76	0.83	0.88	0.08						
17	0.43	0.69	0.74	0.84	0.88	0.09						
18	0.44	0.62	0.74	0.84	0.75	0.09						
19	0.52	0.58	0.76	0.73	0.67	0.32						
20	0.52	0.60	0.77	0.78	0.68	0.42						
21	0.49	0.93	0.82	0.78	0.71	0.28						
22	0.46	1.00	0.81	0.79	0.70	0.26						
23	0.42	1.00	0.82	0.79	0.75	0.10						
24	0.41	0.77	0.84	0.79	0.84	0.29						
25	0.41	0.82	0.60	0.79	0.72	0.37						
26	0.32	0.70	0.83	0.79	0.69	0.09						
27	0.26	0.74	0.82	0.79	0.69	0.20						
28	0.37	0.72	0.81	0.79	0.80	0.04						
29	0.36	0.72	0.80	0.80	0.00	0.02						
30	0.35	0.69	0.78	0.80	0.00	0.02						
31	0.37	0.00	0.76	0.80	0.00	0.21						
TOTAL*	16.59	23.15	22.93	23.80	22.36	15.54						
WATER YEAR TOTAL				MEAN								

*CFS - Days

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306052

SCANDARD GULCH AT MOUTH NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	0.0	0.0	0.0	0.0	0.0	3.0	0.0					
2	0.0	0.0	0.0	0.0	0.0	3.5	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.5	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.0	0.0	0.0	0.0	0.0	0.0						
8	0.0	0.0	0.0	0.0	0.0	0.0						
9	0.0	0.0	0.0	0.0	0.0	0.5						
10	0.0	0.0	0.0	0.0	0.0	1.3						
11	0.0	0.0	0.0	0.0	0.0	3.1						
12	0.0	0.0	0.0	0.0	0.0	2.5						
13	0.0	0.0	0.0	0.0	0.0	0.41						
14	0.0	0.0	0.0	0.0	0.0	0.0						
15	0.0	0.0	0.0	0.0	0.0	0.0						
16	0.0	0.0	0.0	0.0	0.0	0.0						
17	0.0	0.0	0.0	0.0	0.0	0.0						
18	0.0	0.0	0.0	0.0	0.0	0.0						
19	0.0	0.0	0.0	0.0	0.0	0.0						
20	0.0	0.0	0.0	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.0	0.0						
22	0.0	0.0	0.0	0.0	0.0	0.0						
23	0.0	0.0	0.0	0.0	0.5	0.0						
24	0.0	0.0	0.0	0.0	0.7	0.0						
25	0.0	0.0	0.0	0.0	1.0	0.0						
26	0.0	0.0	0.0	0.0	0.0	0.0						
27	0.0	0.0	0.0	0.0	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.7	0.0						
29	0.0	0.0	0.0	0.0	0.0	0.0						
30	0.0	0.0	0.0	0.0	0.0	0.0						
31	0.0	0.0	0.0	0.0	0.0	0.0						
TOTAL*	0.0	0.0	0.0	0.0	2.9	14.81						
WATER YEAR TOTAL				MEAN								

*CFS - Da[illegible]ys

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306058

WILLOW CREEK NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	1.2	1.2	1.1	1.2	1.8	5.5	2.7					
2	1.1	1.2	1.1	1.2	1.8	7.3	2.6					
3	1.1	1.2	1.1	1.2	1.8	3.7	2.7					
4	1.1	1.2	1.0	1.2	1.8	3.3	2.6					
5	1.1	1.1	1.0	1.2	1.8	2.8	2.6					
6	1.1	1.1	1.0	1.2	1.8	3.2						
7	1.0	1.1	1.0	1.2	1.8	2.7						
8	1.0	1.1	1.0	1.2	1.8	3.3						
9	1.1	1.1	1.0	1.2	1.9	3.6						
10	1.0	1.2	1.0	1.2	1.9	3.7						
11	1.0	1.2	1.0	1.2	1.9	4.6						
12	1.1	1.2	1.0	1.2	1.9	3.0						
13	1.1	1.2	1.0	1.4	1.9	2.7						
14	1.1	1.2	1.0	1.4	2.0	2.8						
15	1.1	1.2	1.0	1.5	2.0	2.8						
16	1.1	1.2	1.0	1.6	2.0	2.7						
17	1.1	1.2	1.0	1.7	2.1	2.8						
18	1.1	1.2	1.0	1.7	2.1	2.8						
19	1.1	1.2	1.0	1.6	2.1	2.7						
20	1.1	1.2	1.0	1.5	2.1	2.7						
21	1.1	1.2	1.1	1.5	2.1	2.9						
22	1.1	1.2	1.1	1.5	2.3	2.7						
23	1.1	1.1	1.1	1.5	3.0	2.7						
24	1.1	1.1	1.1	1.6	3.4	2.7						
25	1.1	1.1	1.1	1.7	3.8	2.7						
26	1.1	1.1	1.1	1.7	2.7	2.7						
27	1.2	1.1	1.2	1.7	2.7	2.7						
28	1.1	1.1	1.2	1.7	3.4	2.8						
29	1.1	1.1	1.2	1.7	0.0	2.7						
30	1.1	1.1	1.2	1.7	0.0	2.6						
31	1.1	0.0	1.2	1.7	0.0	2.7						
TOTAL*	33.9	34.7	32.9	44.8	61.7	98.6						
WATER YEAR TOTAL				MEAN								

*CFS - Days

Preliminary Record

DISCHARGE IN CFS, WATER YEAR 1983 MEAN VALUES FOR 9306061

PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	19.0	16.0	15.0	9.5	12.0	23.0	26.0					
2	17.0	16.0	15.0	9.5	13.0	33.0	25.0					
3	16.0	15.0	14.0	9.5	12.0	24.0	25.0					
4	15.0	14.0	13.0	12.0	12.5	21.0	24.0					
5	15.0	14.0	14.0	12.0	13.0	21.0	23.0					
6	16.0	14.0	15.0	12.0	12.0	24.0						
7	15.0	14.0	14.0	12.0	12.5	20.0						
8	15.0	14.0	14.0	12.0	13.0	19.0						
9	15.0	14.0	15.0	13.0	12.0	20.0						
10	15.0	15.0	15.0	13.0	12.0	23.0						
11	15.0	17.0	15.0	13.0	12.0	35.0						
12	15.0	15.0	14.0	12.5	11.0	35.0						
13	15.0	14.0	13.0	12.5	12.0	34.0						
14	15.0	14.0	12.0	12.0	12.0	40.0						
15	14.0	14.0	12.0	12.0	12.0	43.0						
16	14.0	16.0	12.0	12.0	12.0	34.0						
17	14.0	14.0	13.0	12.0	12.0	33.0						
18	14.0	15.0	13.0	12.0	12.0	30.0						
19	13.0	15.0	13.0	12.0	13.0	28.0						
20	13.0	14.0	12.0	12.0	12.0	26.0						
21	12.0	15.0	12.0	12.0	12.0	24.0						
22	12.0	16.0	13.0	11.0	12.0	24.0						
23	12.0	14.0	14.0	11.0	14.0	25.0						
24	12.0	15.0	12.0	12.0	19.0	24.0						
25	13.0	15.0	8.9	12.0	20.0	23.0						
26	13.0	15.0	9.0	12.0	18.0	23.0						
27	15.0	14.0	9.0	12.0	16.0	22.0						
28	15.0	15.0	9.9	12.0	19.0	23.0						
29	14.0	14.0	9.2	13.0	0.0	22.0						
30	15.0	15.0	9.5	12.0	0.0	21.0						
31	15.0	0.0	9.5	12.0	0.0	24.0						
TOTAL*	448.0	442.0	389.0	367.5	374.0	821.0						
WATER YEAR TOTAL				MEAN								

*CFS - Days

Preliminary Record

1.2.1.2 Springs and Seeps

Flow and field measurement data were sampled at 22 springs and 1 seep during January through May 1983 and are presented in this section in tabular and plot form. Monitoring of these springs are required by the Interim Monitoring Program (IMP) and the Water Augmentation Plan (WAP); see Table 1.2-1. The IMP sampling requirements include flows and field measurements (temperature, pH and conductivity) taken monthly at four springs (WS04, WS06, WS07, and WS12) and remaining springs, WS01, WS02, WS03, WS08, WS09, WS10, WS66, and seep WS11 if not diverted for seasonal irrigation; refer to Figure 1.2.1.2-1 for location. Nine springs located around the outer boundaries of C-b Tract can be referenced on Figure 1.2-1 (jacket map). These nine springs are monitored by the State of Colorado Division of Water Resources.

Tables 1.2.1.2-1 through 1.2.1.2-3 consist of data sampled during this report period for C-b Tract springs of flow and field measurements and flow of off-tract springs.

Time series plots of flow data from 28 springs and 1 seep are presented to display a historical picture of spring flow activities since 1979 through May 1983. See Table 1.2.1.2-4 for the page number of each spring plot.

Table 1.2-1 lists water stations and sampling schedule during the interim period.

SPRINGS AND SEEPS AROUND
Cb TRACT

Figure 1.2.1.2-1

SPRINGS AND SEEPS AROUND
Cb TRACT

Figure 1.2.1.2-1

Table 1.2.1.2-1 (Contd)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	ST	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS08	83	4	29	DRY	.00				
		5	25		.31	9.0	7.5		1380.0
WS09	83	1	24		.22	8.0	7.8		1300.0
		2	28		.21	8.0	7.8		1290.0
		3	31		.23	9.5	7.5		1310.0
		4	29		.22	9.2	7.7		1330.0
		5	25		.25	10.5	7.6		1380.0
WS10	83	1	24		.69	7.0	7.6		1240.0
		2	28		.73	8.0	7.6		1260.0
		3	31		.71	8.5	7.7		1230.0
		4	29		.69	7.8	7.8		1240.0
		5	25		.92	18.0	7.9		1380.0
WS11	83	1	24		.73	8.0	7.7		1270.0
		2	28		.73	8.0	7.7		1290.0
		3	31		.70	8.0	7.6		1250.0
		4	29		.73	8.2	7.8		1240.0
		5	25		.90	12.0	7.9		1350.0
WS12	83	1	24		.47	9.0	7.9		1630.0
		2	28		.39	9.5	8.0		1520.0
		3	27		.47	10.0	7.7		1490.0
		4	29		.47	11.2	8.2		1520.0
		5	29	NS	.00				
WS13	83	4	29		-.36	9.5	8.0		1480.0
		5	29		-.42	9.5	8.2		1500.0

DRY = SPRING DRY
NOFLME = NO FLUME
\- = LESS THAN
DIVERT = FLOW DIVERTED FOR IRRIGATION
NS = NOT SAMPLED

Table 1.2.1.2-1 (Contd)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	ST	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS08	83	4	29	DRY	.00				
		5	25		.31	9.0	7.5		1380.0
WS09	83	1	24		.22	8.0	7.8		1300.0
		2	28		.21	8.0	7.8		1290.0
		3	31		.23	9.5	7.5		1310.0
		4	29		.22	9.2	7.7		1330.0
		5	25		.25	10.5	7.6		1380.0
WS10	83	1	24		.69	7.0	7.6		1240.0
		2	28		.73	8.0	7.6		1260.0
		3	31		.71	8.5	7.7		1230.0
		4	29		.69	7.8	7.8		1240.0
		5	25		.92	18.0	7.9		1380.0
WS11	83	1	24		.73	8.0	7.7		1270.0
		2	28		.73	8.0	7.7		1290.0
		3	31		.70	8.0	7.6		1250.0
		4	29		.73	8.2	7.8		1240.0
		5	25		.90	12.0	7.9		1350.0
WS12	83	1	24		.47	9.0	7.9		1630.0
		2	28		.39	9.5	8.0		1520.0
		3	27		.47	10.0	7.7		1490.0
		4	29		.47	11.2	8.2		1520.0
		5	29	NS	.00				
WS13	83	4	29		-.36	9.5	8.0		1480.0
		5	29		-.42	9.5	8.2		1500.0

DRY = SPRING DRY
NOFLME = NO FLUME
\- = LESS THAN
DIVERT = FLOW DIVERTED FOR IRRIGATION
NS = NOT SAMPLED

Table 1.2.1.2-2 (Contd)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	ST	FLOW (CFS)
WS66	83	3	31	DRY	.00
		4	29	DRY	.00

DRY = SPRING DRY
NOFLME = NO FLUME
\- = LESS THAN

Table 1.2.1.2-2 (Contd)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	ST	FLOW (CFS)
WS66	83	3	31	DRY	.00
		4	29	DRY	.00

DRY = SPRING DRY
NOFLME = NO FLUME
\- = LESS THAN

Table 1.2.1.2-3 (Contd)

CB-TRACT
STEVENS RECORDER WATER FLOW FOR SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

YR	MO	DY	WS04 FLOW (CFS)	WS11 FLOW (CFS)	WS12 FLOW (CFS)
83	2	16	.22		.39
		17	.22		.39
		18	.23		.39
		19	.23		.39
		20	.23		.39
		21	.23		.39
		22	.25		.39
		23	.25		.41
		24	.26		.39
		25	.26		.39
		26	.26		.39
		27	.26		.39
		28	.28		.41
	3	1	.28		.43
		2	.69		.56
		3	.45		.45
		4	.31		.48
		5	.28		.45
		6	.28		.56
		7	.28		.43
		8	.29		.45
		9	.34		.56
		10	.52		.60
		11	.92		.54
		12	.45		.45
		13	.34		.45
		14	.32		.47
		15	.31		.45
		16	.31		.45
		17	.31		.52
		18	.31		.48
		19	.31		.48
		20	.31		.47
		21	.31		.47
		22	.31		.47
		23	.31		.47
		24	.31		.47
		25	.31		.48
		26	.31		.50
		27	.31		.47
		28	.31		
		29	.31		
		30	.31		
		31	.31	.70	
	4	1	.31	.70	
		2	.31	.70	

Table I.2.1.2-3 (Contd)

CB-TRACT

STEVENS RECORDER WATER FLOW FOR SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

YR	MO	DY	WS04 FLOW (CFS)	WS11 FLOW (CFS)	WS12 FLOW (CFS)
83	2	16	.22		.39
		17	.22		.39
		18	.23		.39
		19	.23		.39
		20	.23		.39
		21	.23		.39
		22	.25		.39
		23	.25		.41
		24	.26		.39
		25	.26		.39
		26	.26		.39
		27	.26		.39
		28	.28		.41
	3	1	.28		.43
		2	.69		.56
		3	.45		.45
		4	.31		.48
		5	.28		.45
		6	.28		.56
		7	.28		.43
		8	.29		.45
		9	.34		.56
		10	.52		.60
		11	.92		.54
		12	.45		.45
		13	.34		.45
		14	.32		.47
		15	.31		.45
		16	.31		.45
		17	.31		.52
		18	.31		.48
		19	.31		.48
		20	.31		.47
		21	.31		.47
		22	.31		.47
		23	.31		.47
		24	.31		.47
		25	.31		.48
		26	.31		.50
		27	.31		.47
		28	.31		
		29	.31		
		30	.31		
		31	.31	.70	
	4	1	.31	.70	
		2	.31	.70	

Table 1.2.1.2-3 (Contd)

CB-TRACT
STEVENS RECORDER WATER FLOW FOR SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

YR	MO	DY	WS04 FLOW (CFS)	WS11 FLOW (CFS)	WS12 FLOW (CFS)
83	5	19	.32	.80	
		20	.31	.80	
		21	.34	.81	
		22	.32	.83	
		23	.32	.83	
		24	.32	.83	
		25		.83	

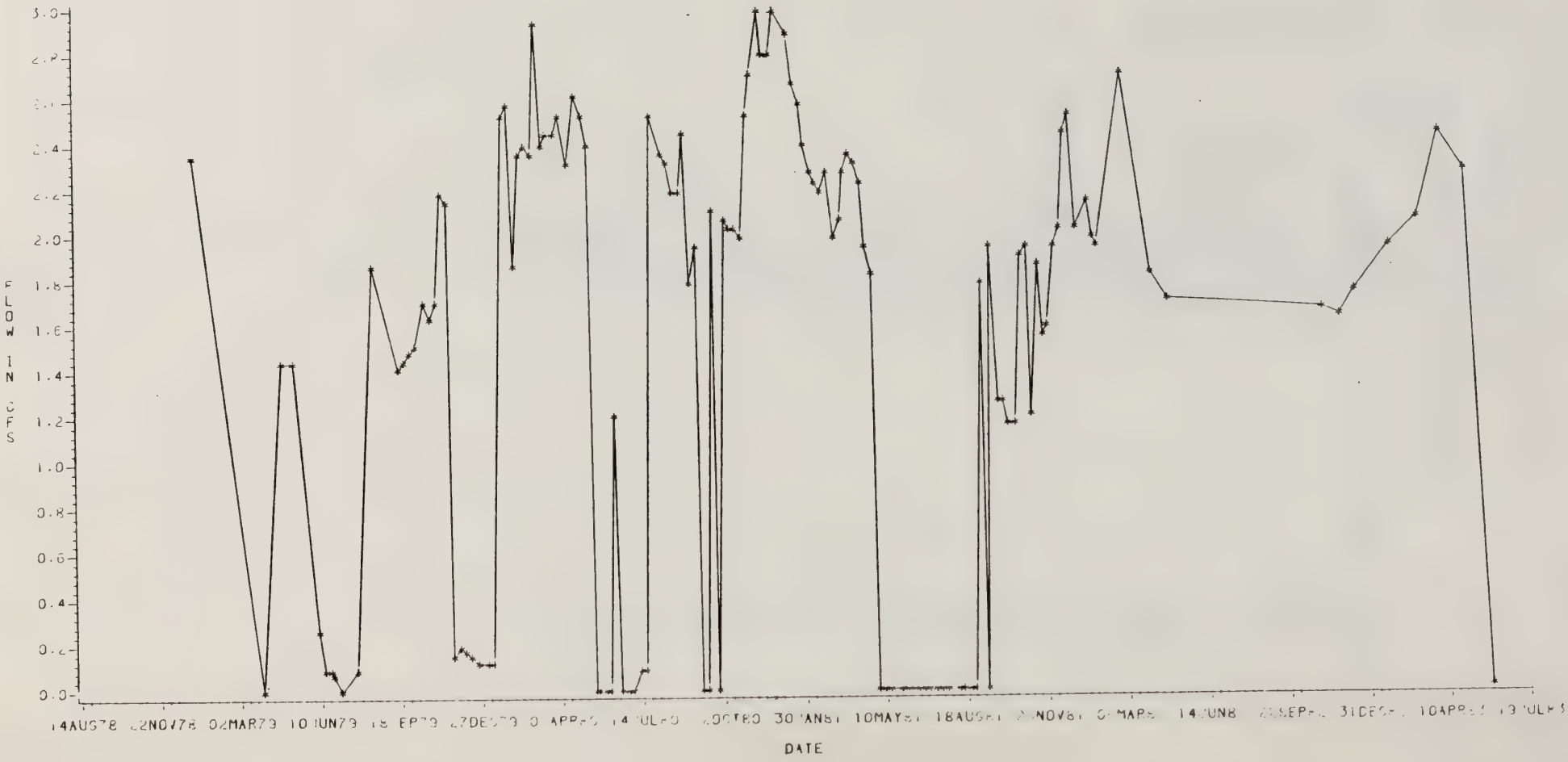
TABLE 1.2.1.2-4

LIST OF SPRING FLOW TIME SERIES PLOTS

Computer Code	Location	Page No.
WS01	CB S-1	I-36
WS02	CB S-2	I-37
WS03	CB S-3	I-38
WS04	CB S-4	I-39
WS06	CB S-6	I-40
WS07	CB S-7	I-41
WS08	CB S-8	I-42
WS09	CB S-9	I-43
WS10	CB S-10	I-44
WS11	CB S-10A (Seep)	I-45
WS12	CB S-102	I-46
WS21	CER-1	I-47
WS22	B-3	I-48
WS23	H-3	I-49
WS24	F-3	I-50
WS25	Figure 4-A	I-51
WS26	W-4	I-52
WS27	W-9	I-53
WS28	CER-7	I-54
WS29	S-9	I-55
WS30	P3 & P3A	I-56
WS31	CER-6	I-57
WS32	W-2 (CB S-9)	I-58
WS33	S-2	I-59
WS34	W-3 (CB S-10)	I-60
WS35	Figure 4	I-61
WS36	CB S-101	I-62
WS37	Oldland Spring	I-63
WS66	CB S-6A	I-64

TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WSG1

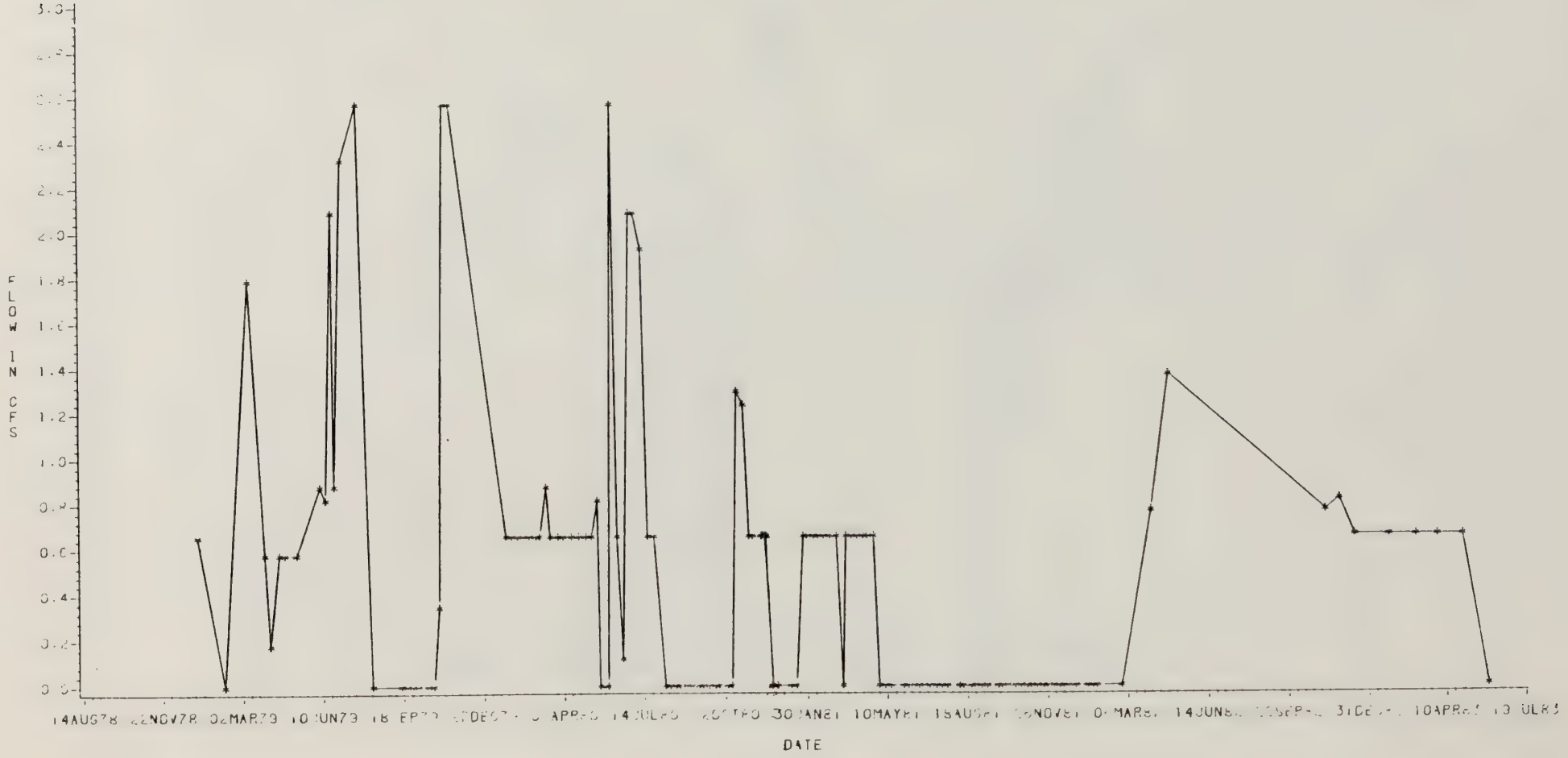


TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=W-S2

TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS03

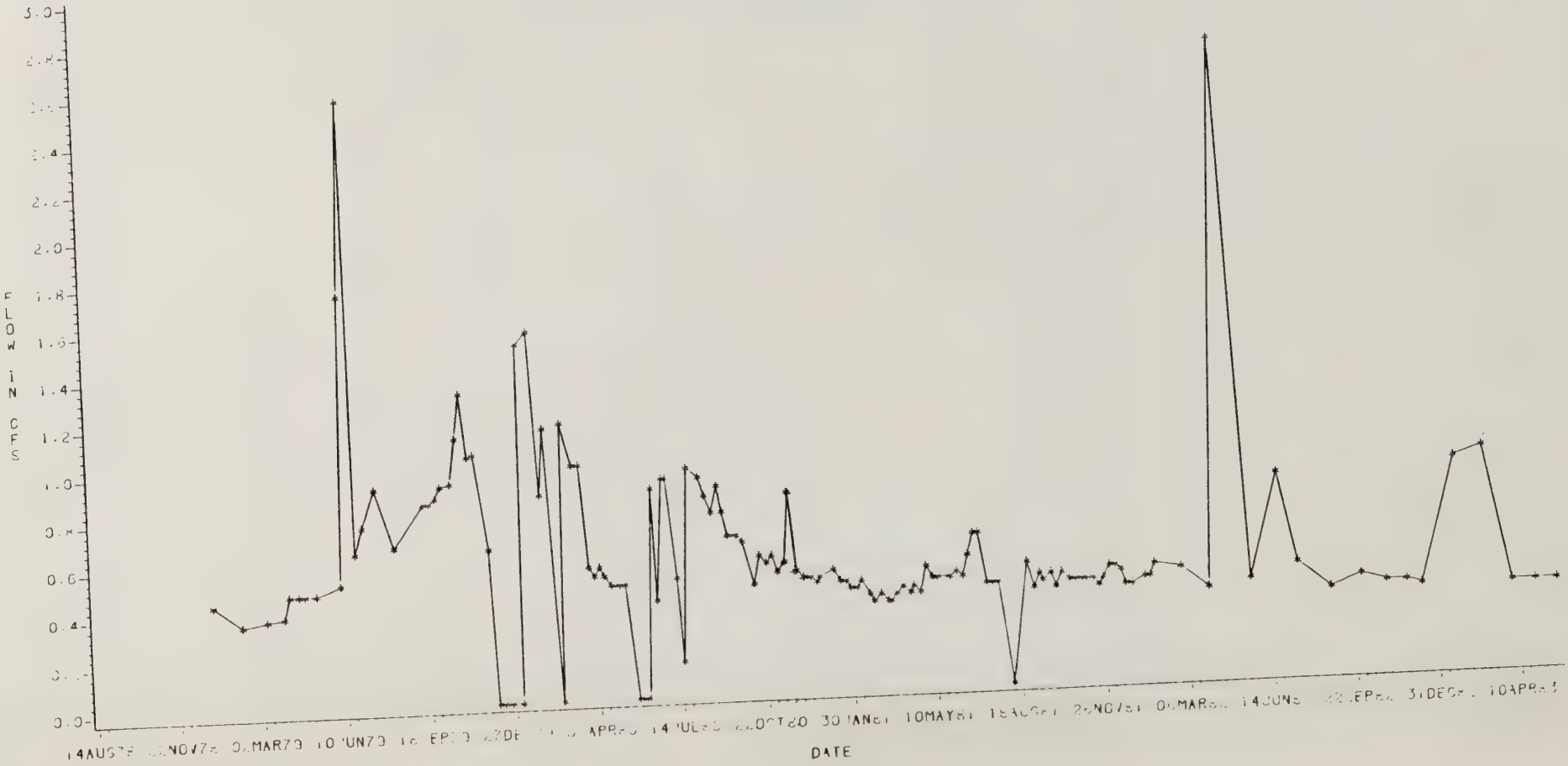


TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS04

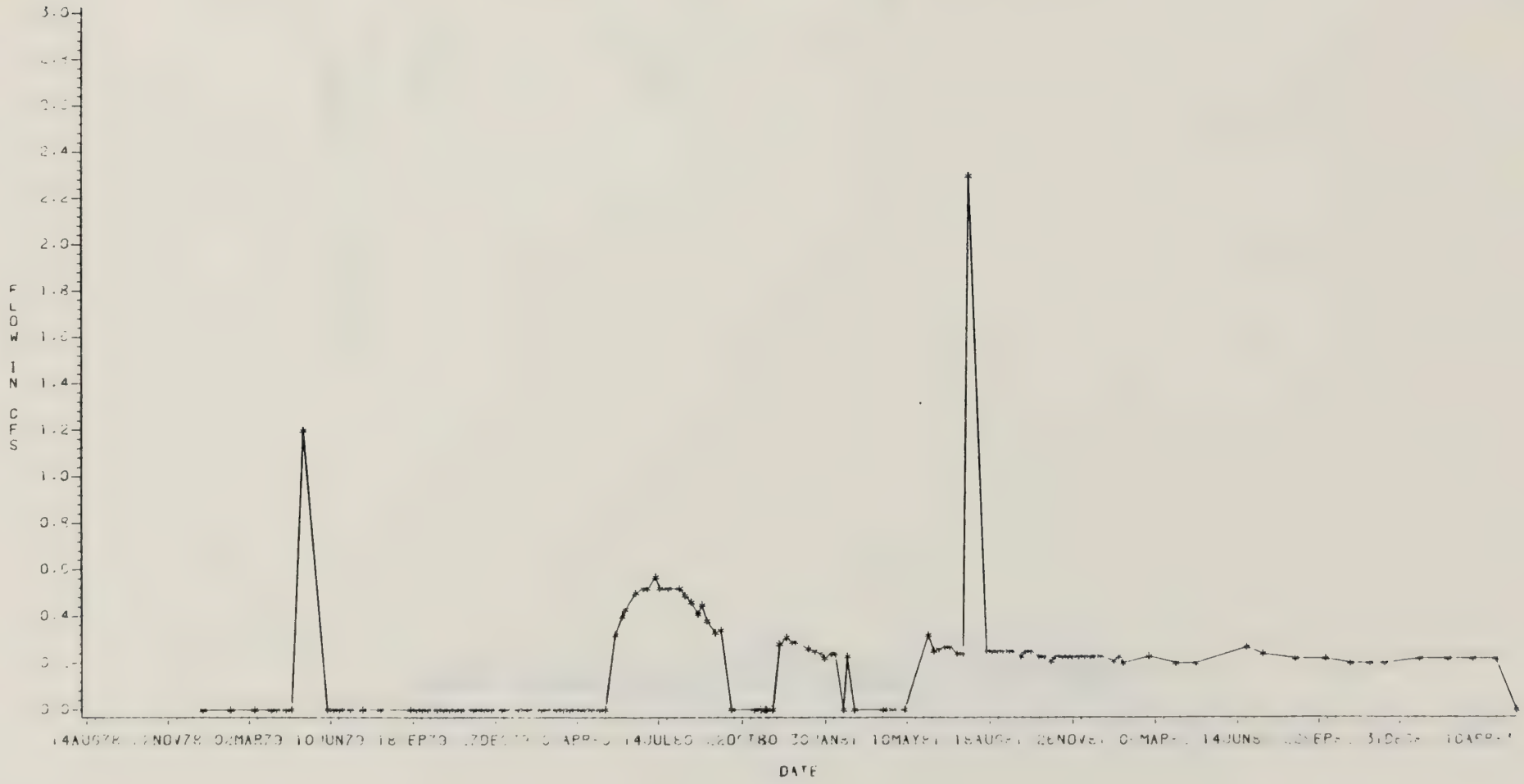
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WSOG



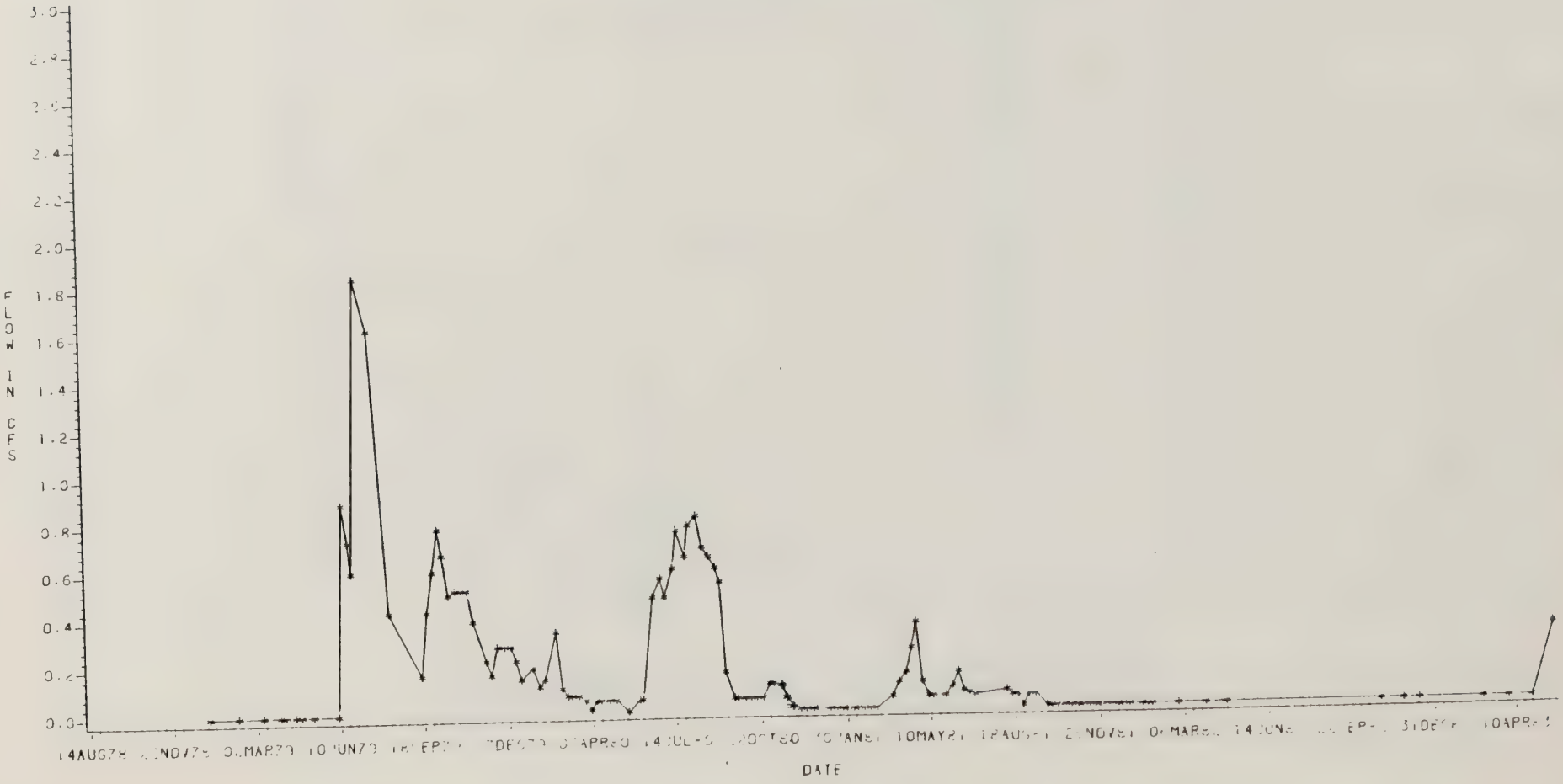
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WSO7



TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WOOF



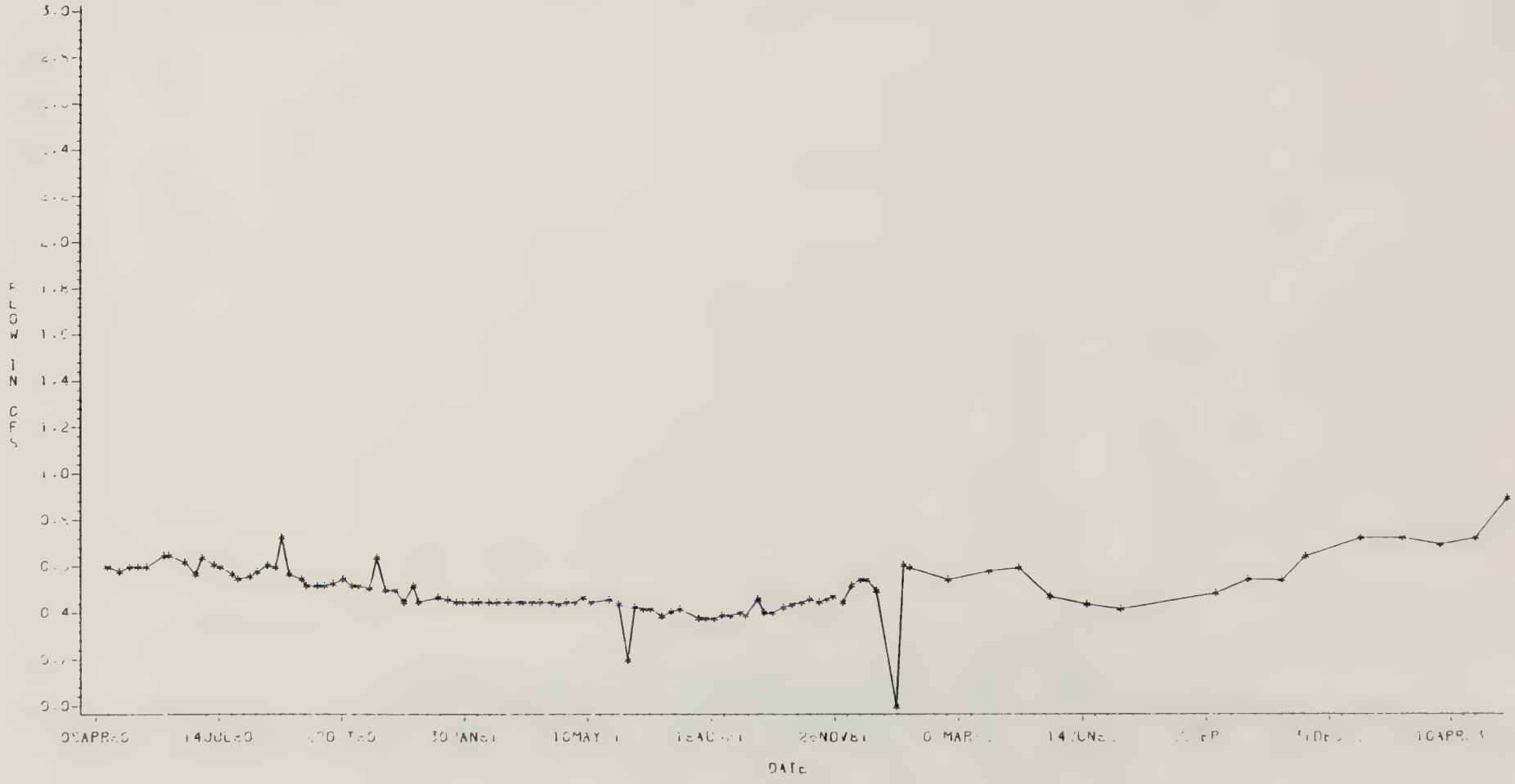
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS09

TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOG=WS10

TIME SERIES PLOT FOR SPRINGS AND SEEPS



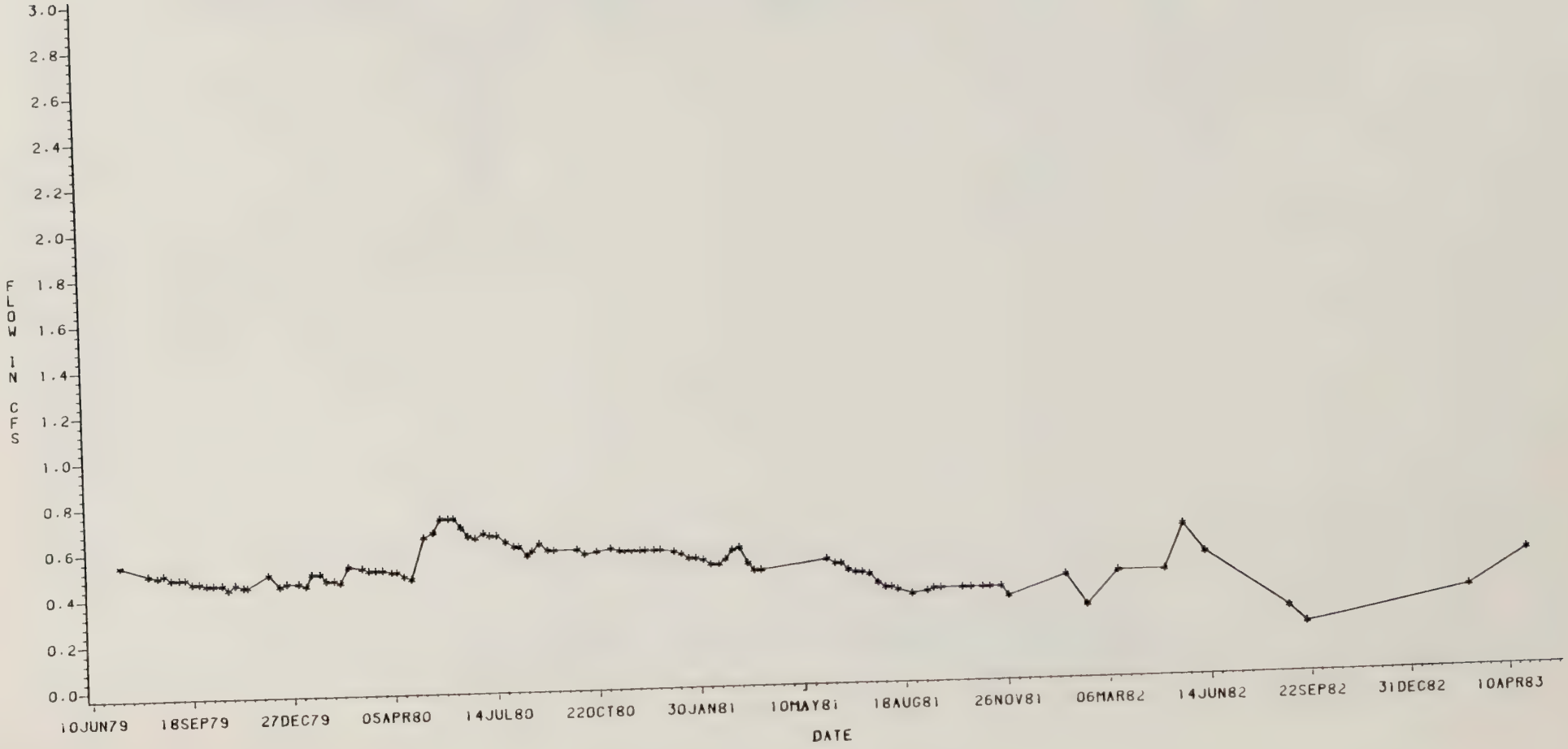
TIME SERIES PLOT FOR SPRINGS AND SEEPS

TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS21

TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS22

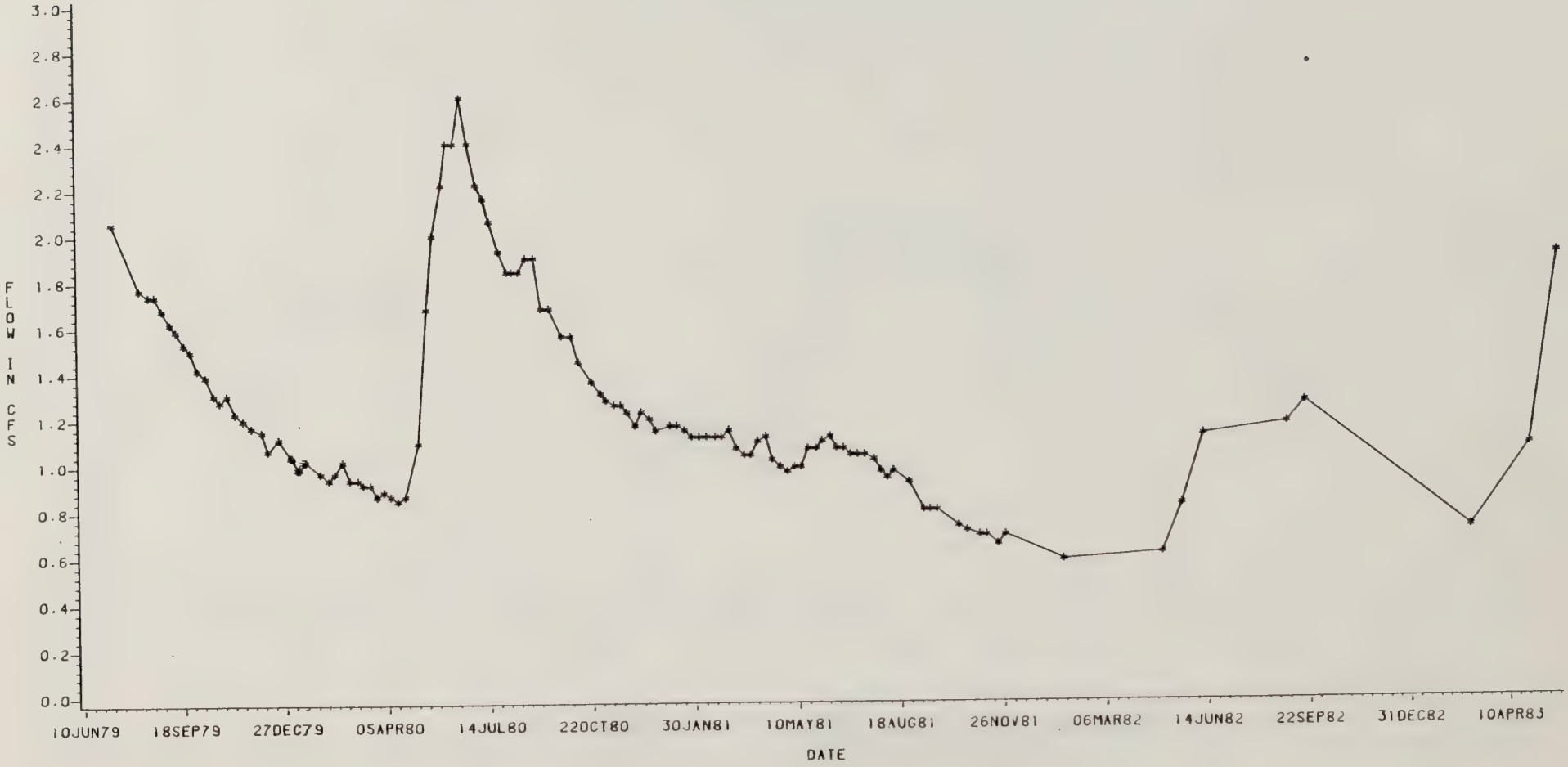


TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS23

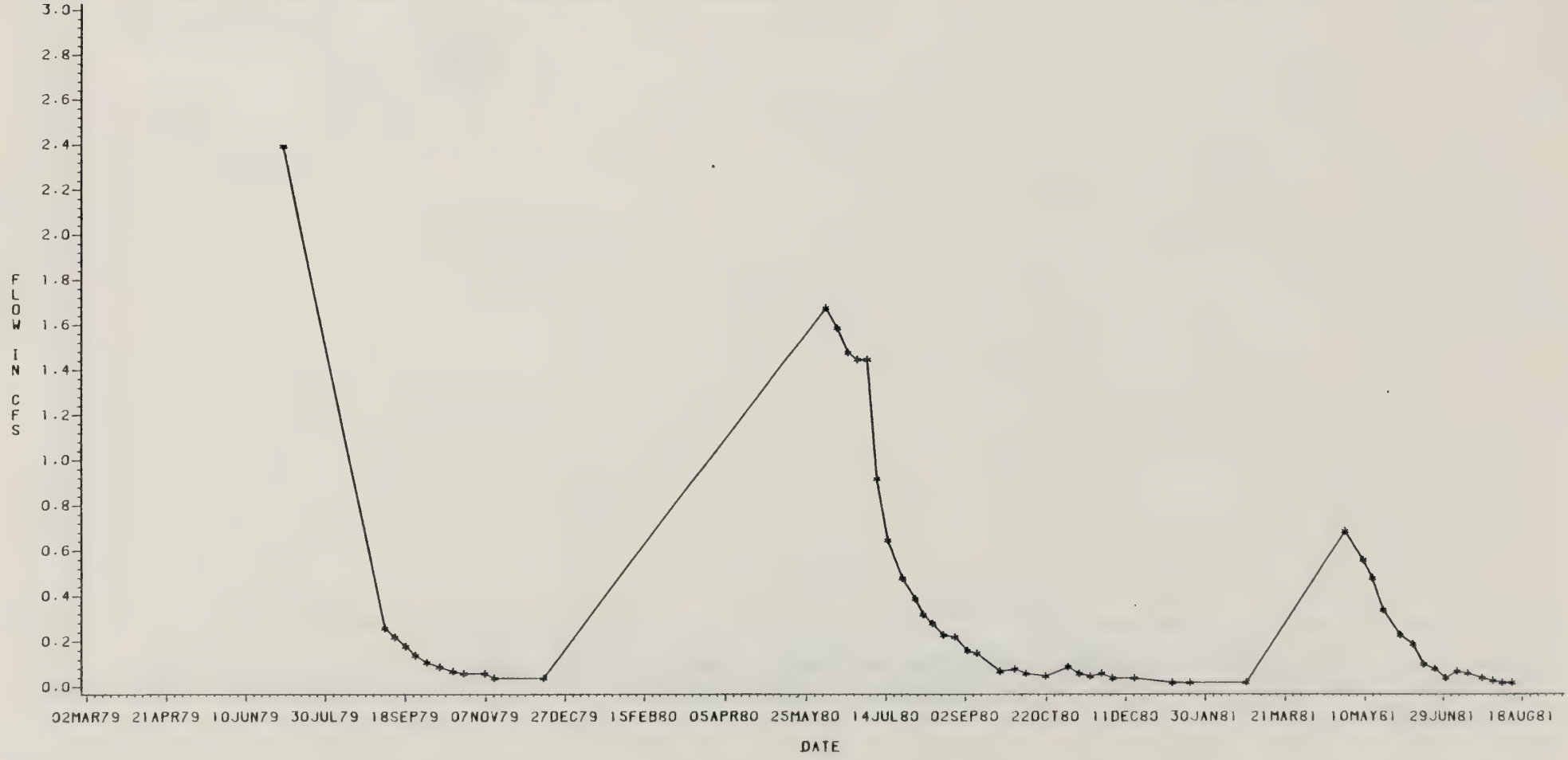
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS24



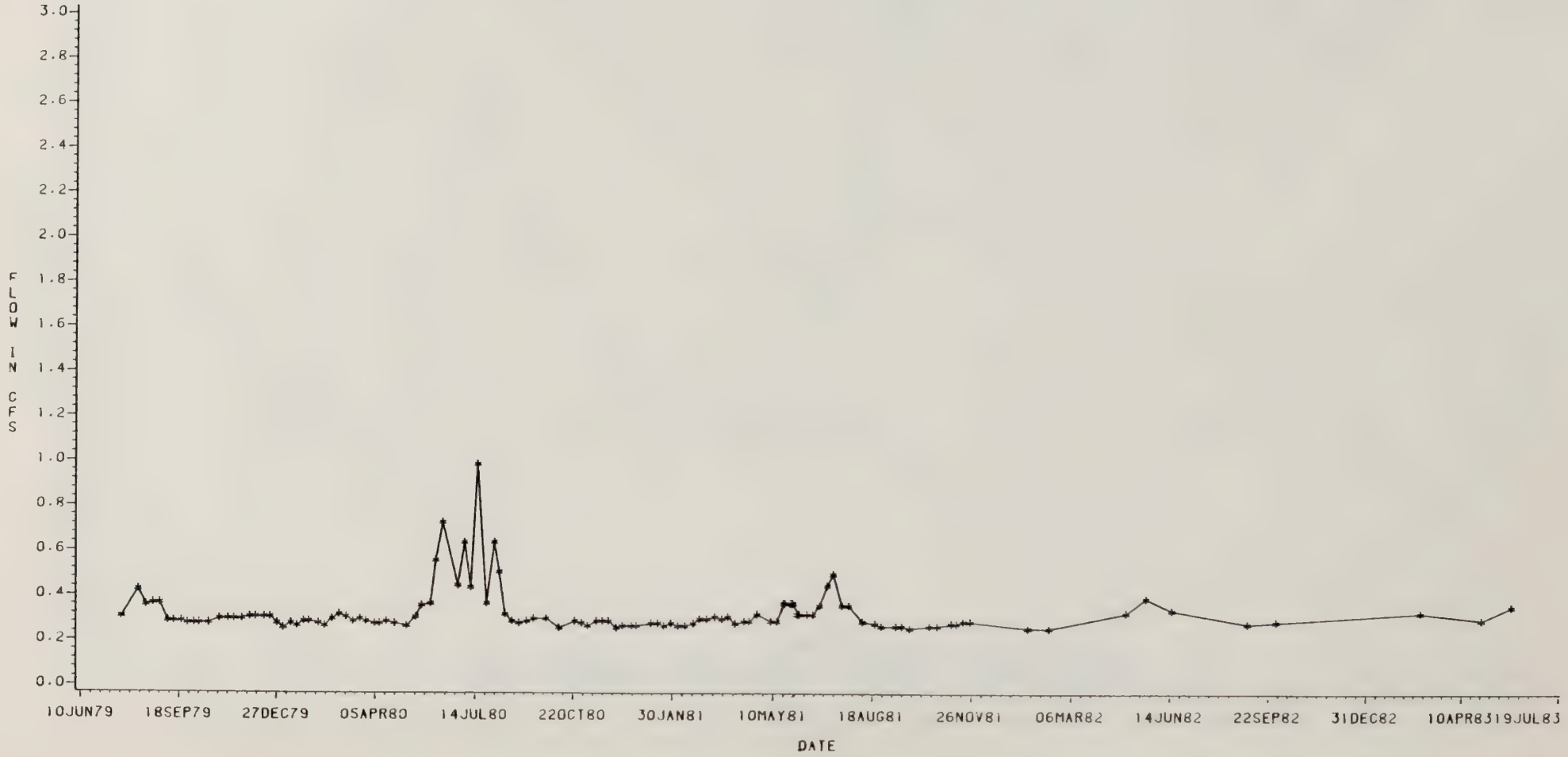
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS25



TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS26

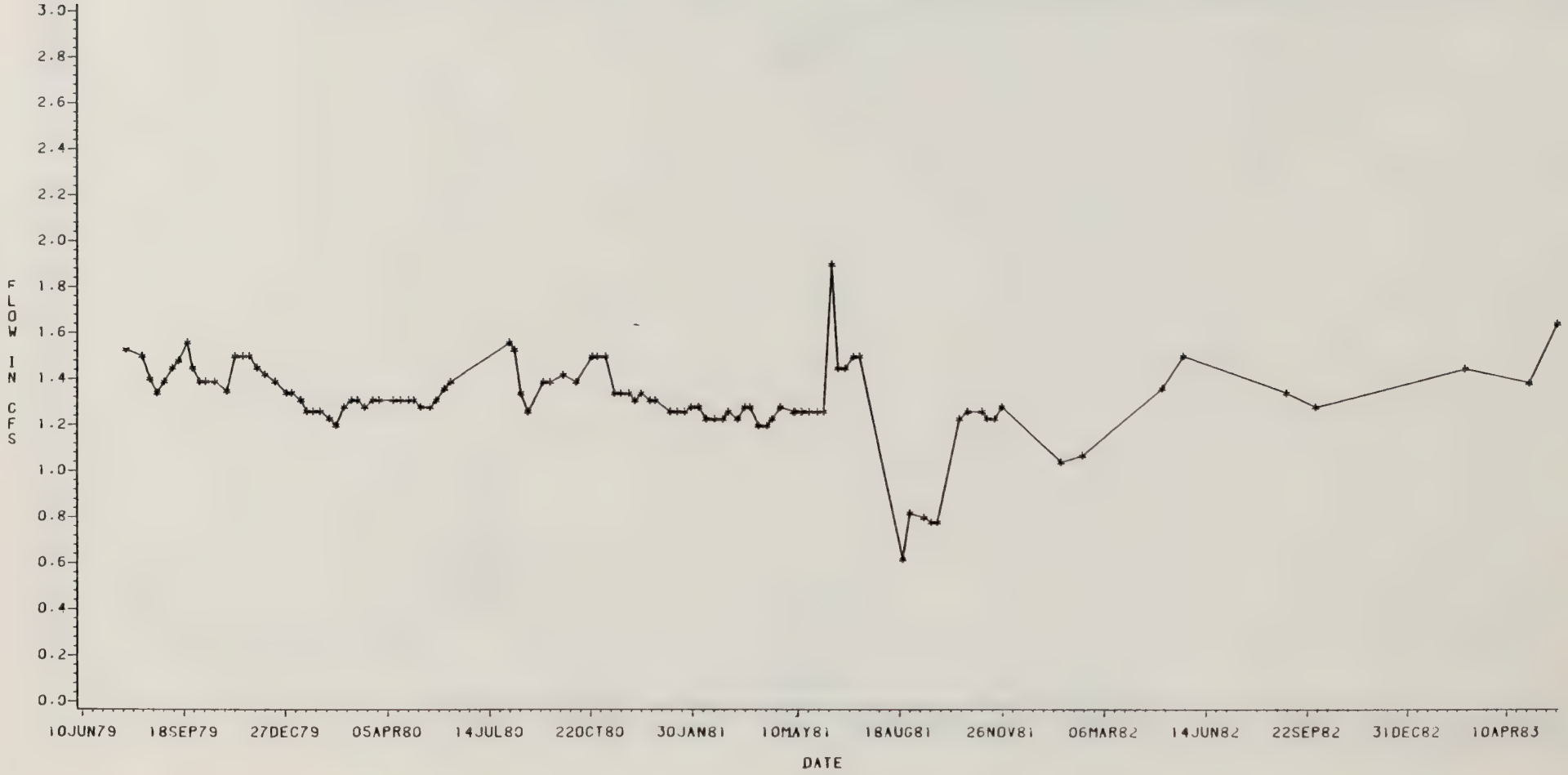


TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS27

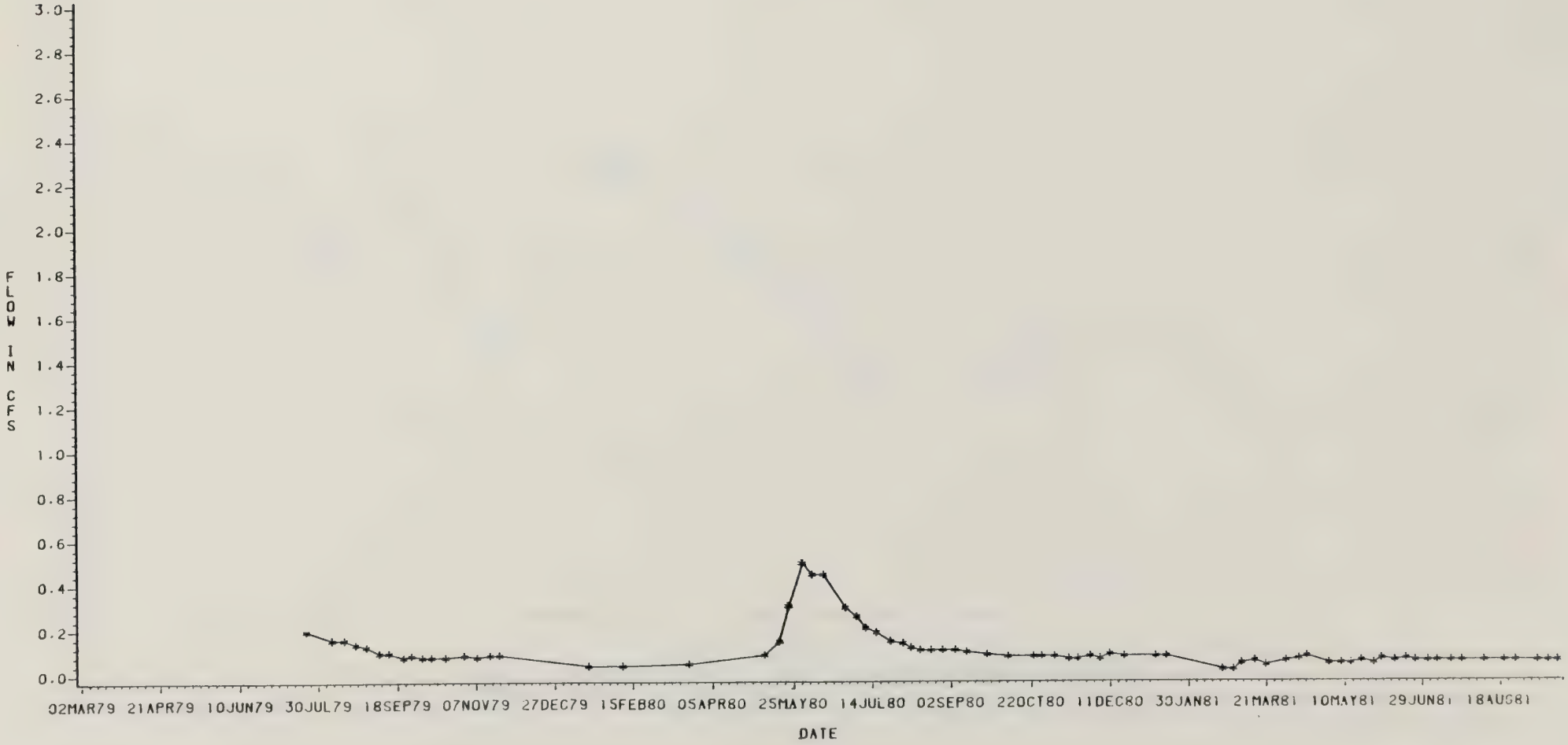
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS28



TIME SERIES PLOT FOR SPRINGS AND SEEPS

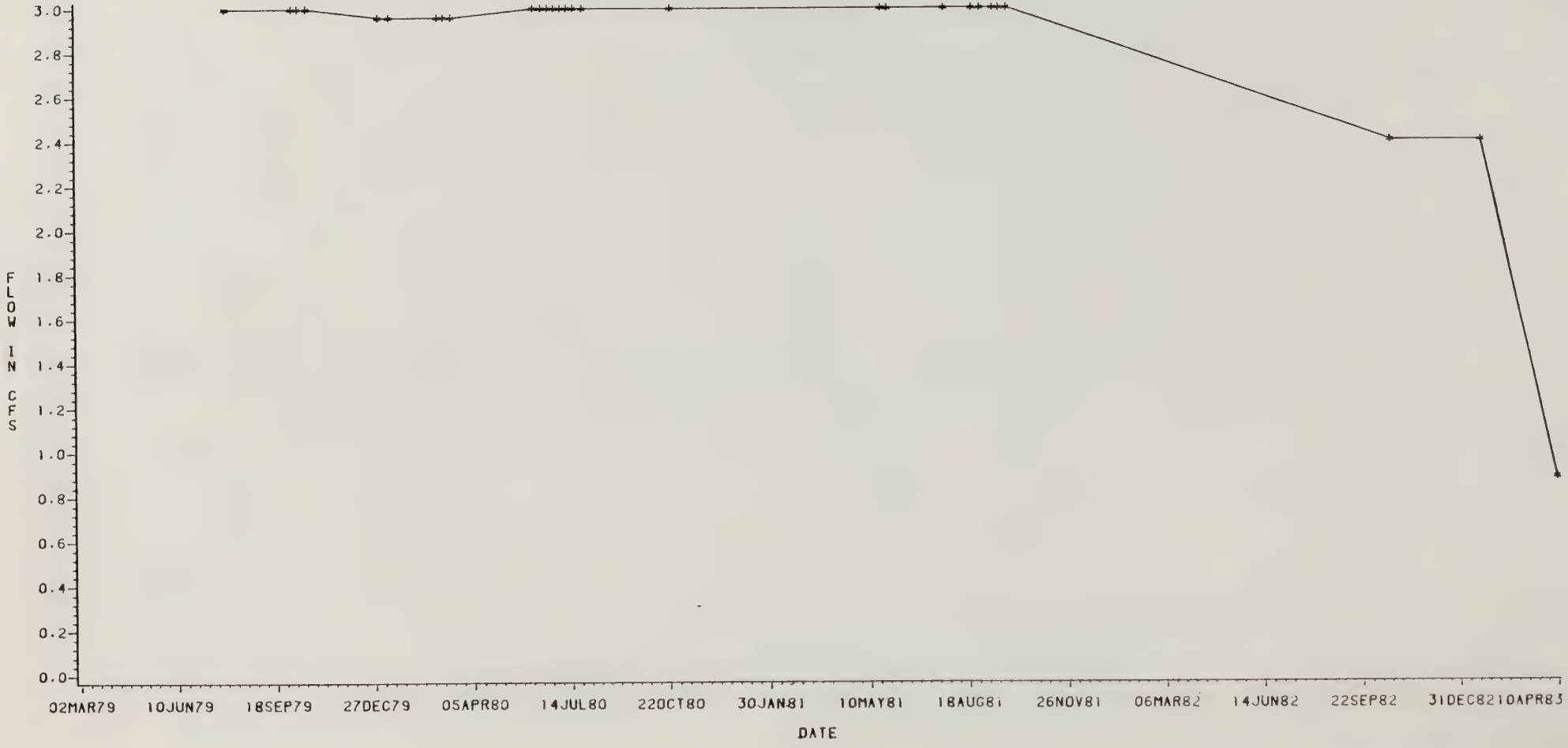
LOC=WS29



CG-I

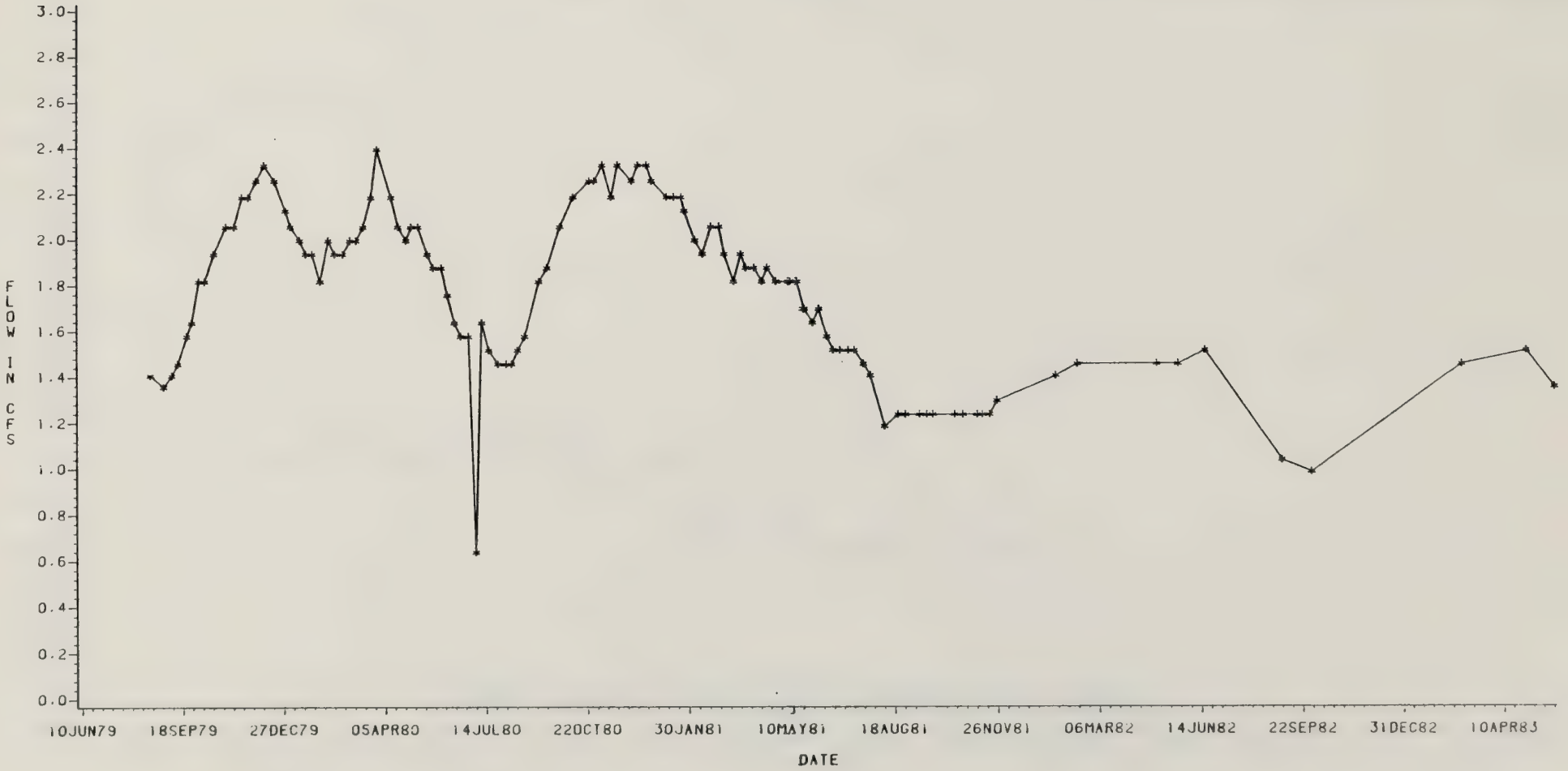
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS30



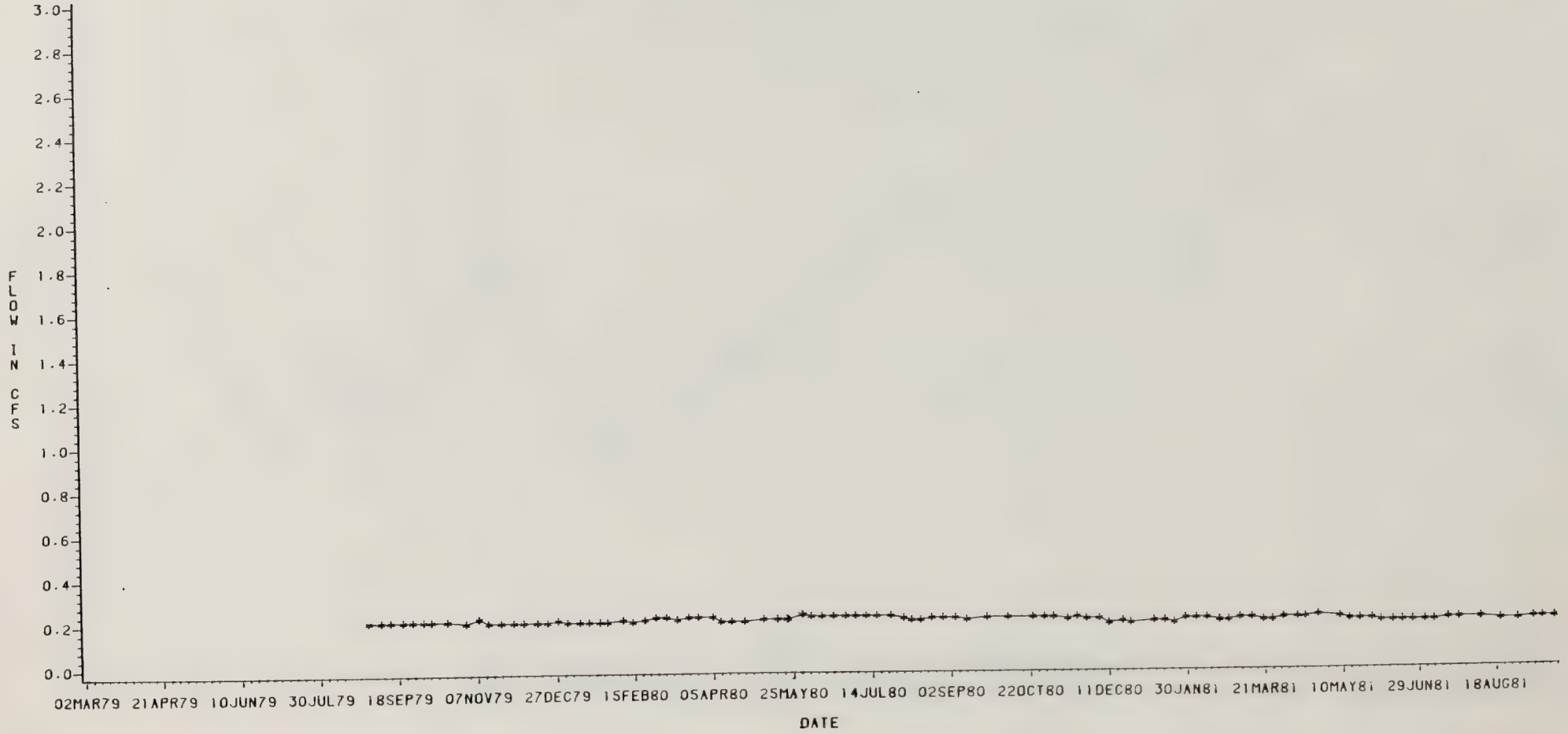
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS31



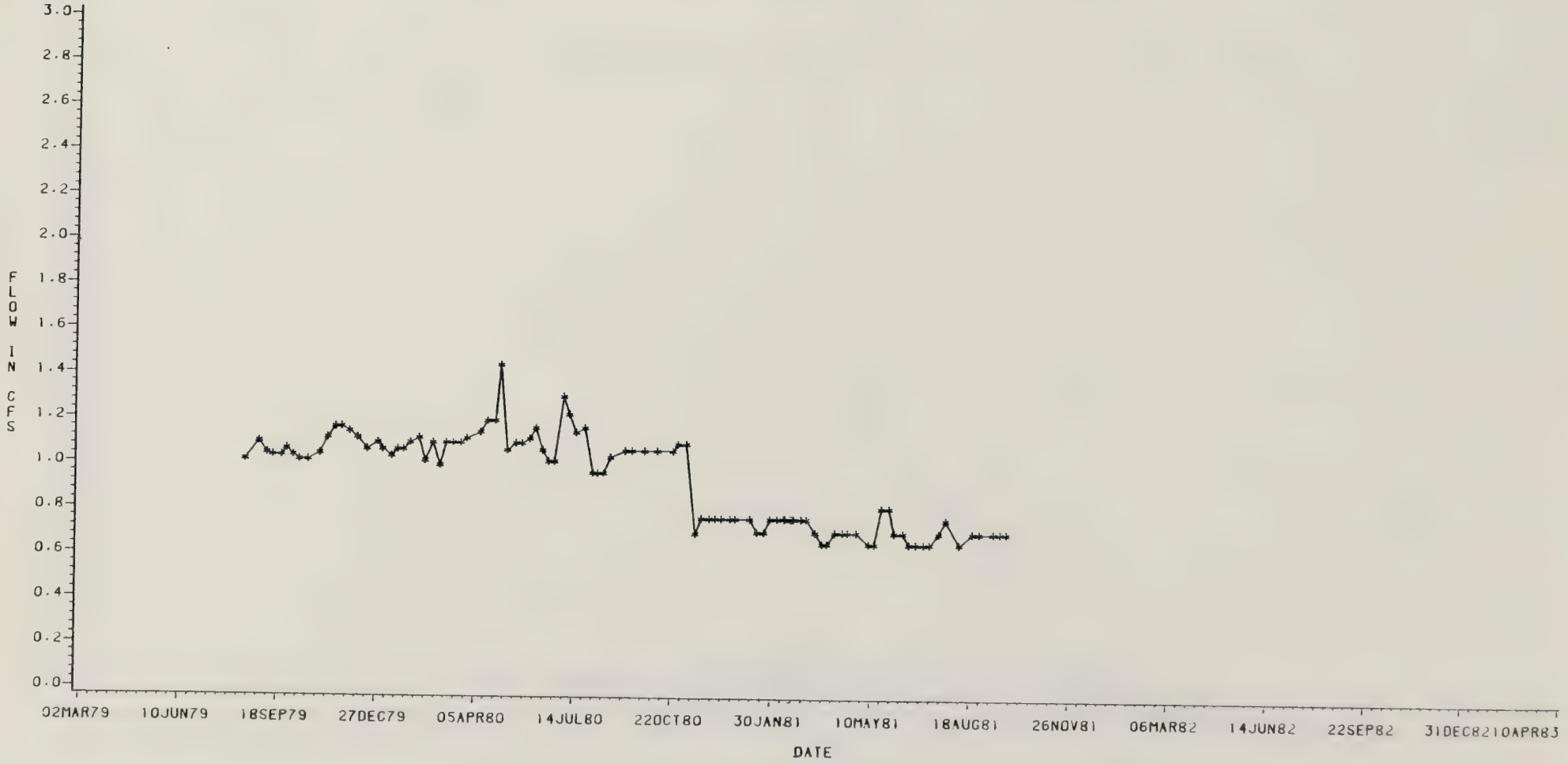
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS32



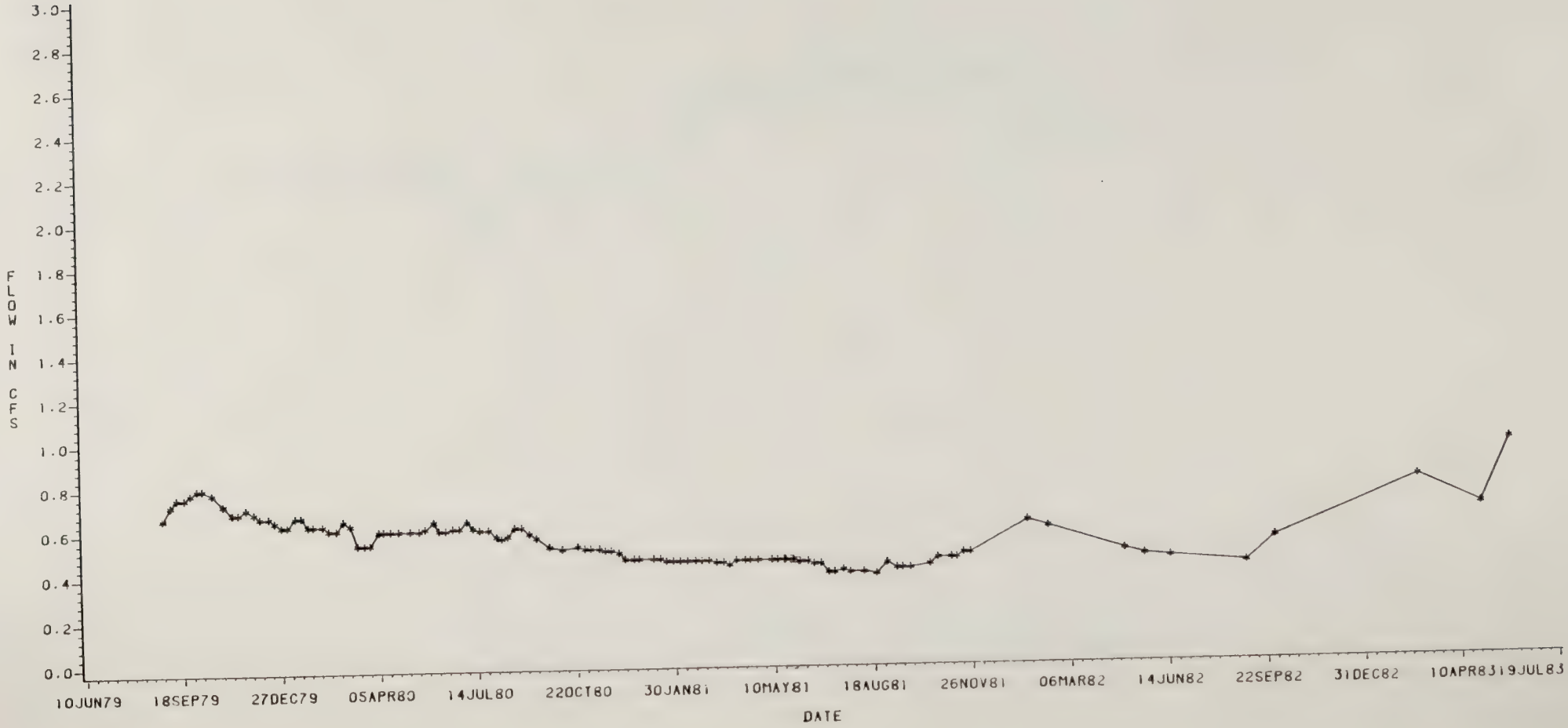
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS33



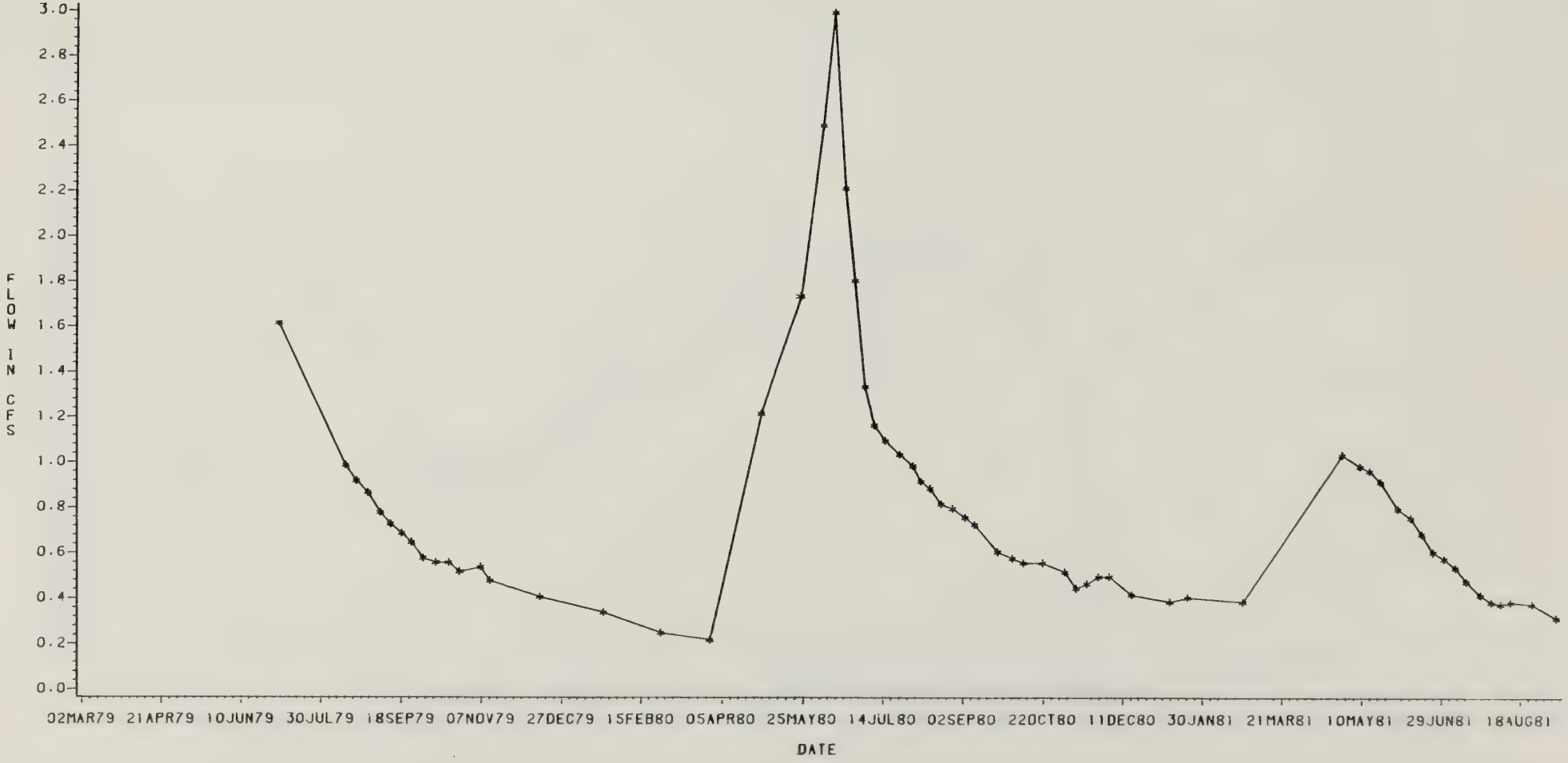
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS34



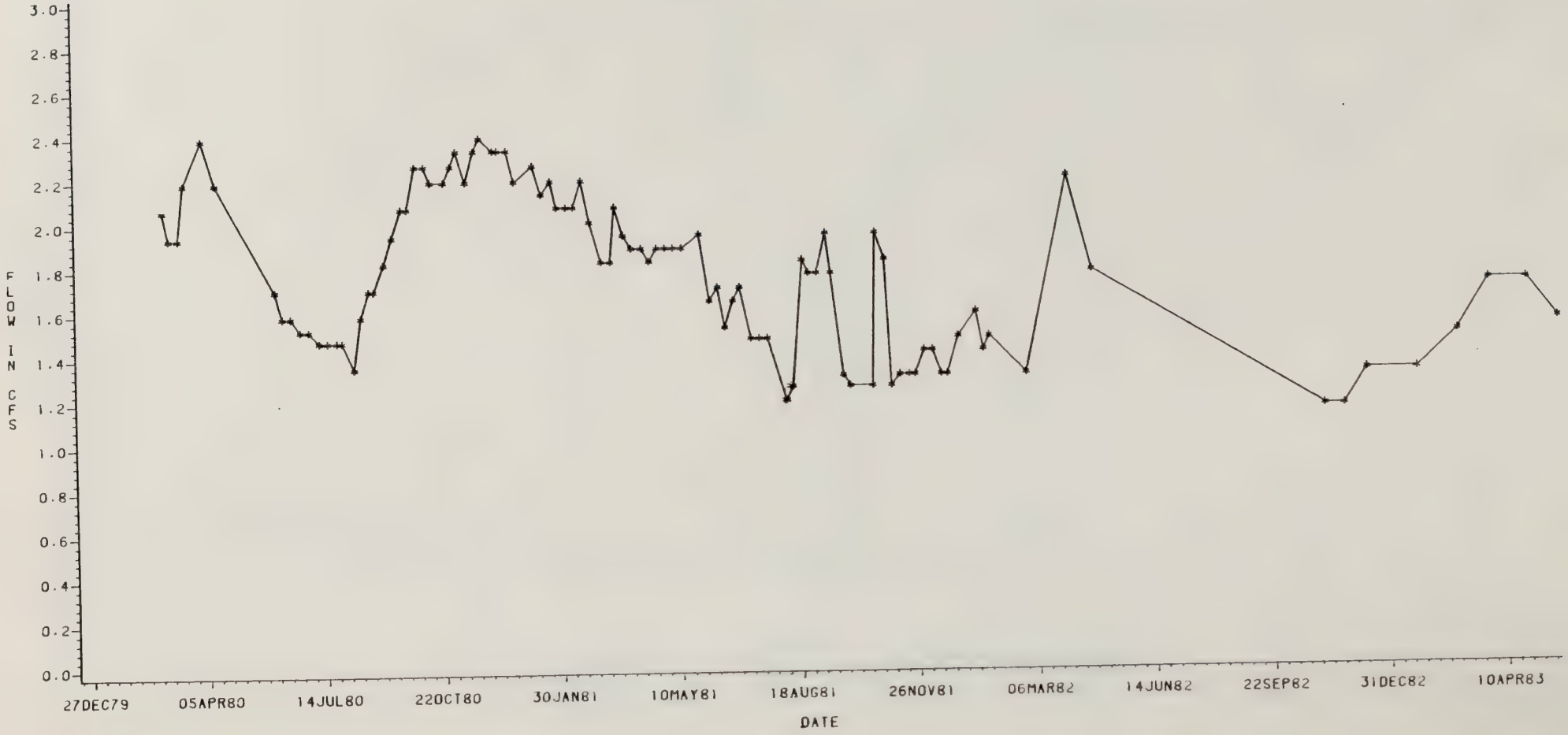
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS35



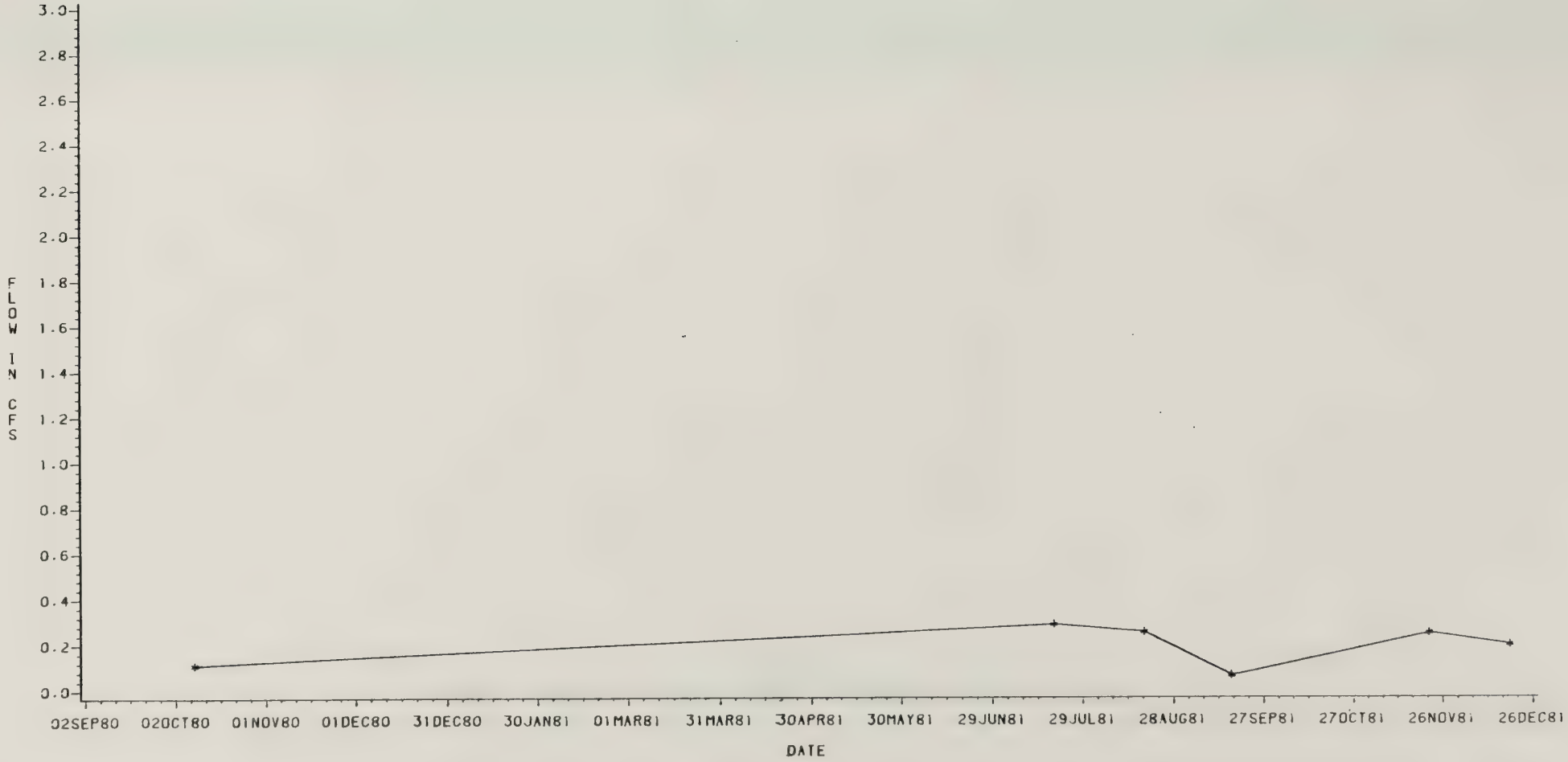
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS36



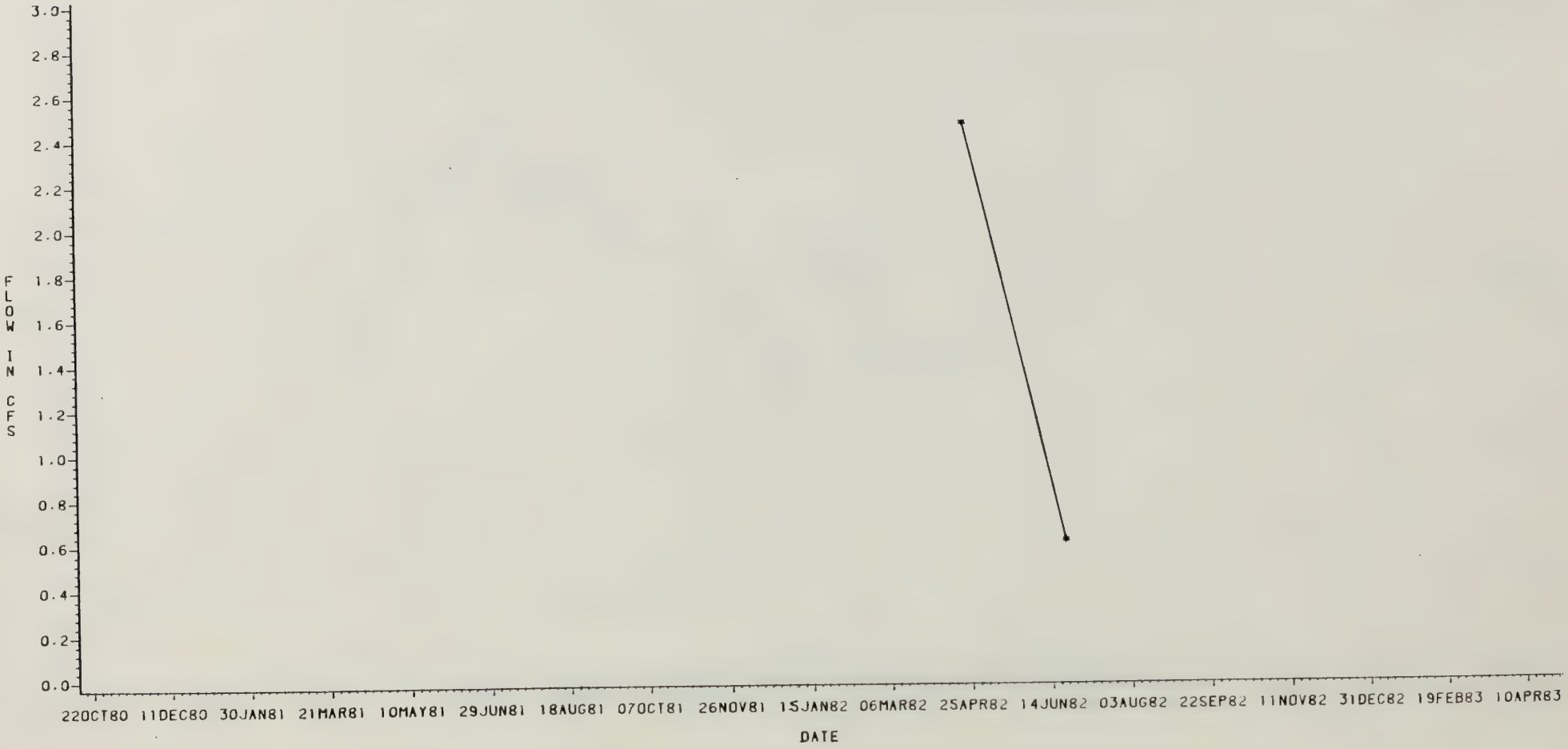
TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS37



TIME SERIES PLOT FOR SPRINGS AND SEEPS

LOC=WS66



1.2.1.3 Alluvial Wells

Alluvial wells are located on and near C-b Tract; these wells are shown in Figure 1.2.1.3-1

Monitoring of alluvial wells was begun during the baseline period and has continued through C-b Tract's Developmental Monitoring Program, which ended March 1982. Approval of the Interim Monitoring Program (IMP) was granted by the Deputy Minerals Manager for Oil Shale for the period, April 1983 through April 1984.

Data reported in this section are for the Interim Monitoring Program (IMP).

Water levels and field measurements were sampled monthly for all alluvials except dry holes during the DMP. Water levels sampling frequency remains unchanged during the IMP. Field measurements (temperature, pH and conductivity) are to be sampled semiannually unless a maximum or minimum greater than 20% deviation from baseline values occurs for pH or conductivity; then an additional water quality sample must be taken and analyzed. See Table 1.2-1 for station list and associated sampling frequency.

Table 1.2.1.3-1 presents water level and field measurement data for January 1983 through May 1983 for all alluvial wells.

Time series plots of alluvial well levels are presented in this section; for reference see Table 1.2.1.3-2.

Stevens Recorder instrumentation for monitoring continuous water levels were operating at ten alluvial wells during the Development Monitoring Program (DMP), hence these recorders were removed upon approval of the Deputy Minerals Manager for Oil Shale for the Interim Monitoring Program (IMP).

ALLUVIAL AQUIFER MONITORING NETWORK

Figure 1.2.1.3-1

Table 1.2.1.3-1

CB-TRACT
WATER LEVELS AND FIELD MEASUREMENTS
ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DY	ST	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA01	83	1	28		6237.3				
		2	28		6237.0				
		3	27		6239.0				
		4	29		6237.7	10.9	7.7		1633.0
		5	29		6236.5				
WA02	83	1	28		6269.6				
		2	28		6269.4				
		3	30		6268.5				
		4	29		6268.0	5.8	7.8		960.0
		5	29		6268.8				
WA03	83	1	28		6363.1				
		2	23		6363.1				
		3	30		6364.1				
		4	29		6364.6	8.9	7.4		1300.0
		5	29		6364.9				
WA05	83	1	24		6327.0				
		2	28		6327.3				
		3	27		6327.7				
		4	29		6328.5	8.3	7.6		1510.0
		5	29		6330.4				
WA06	83	1	28		6324.0				
		2	28		6325.2				
		3	27		6326.0				
		4	28		6326.7	10.1	7.7		1480.0
		5	31	INACSS	.0				
WA07	83	1	28		6348.2				
		2	28		6347.8				
		3	27		6349.4				
		4	28		6350.5	9.0	7.8		1160.0
		5	31	INACSS	.0				
WA08	83	1	24		6384.5				
		2	23		6384.3				

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSIBLE

Table 1.2.1.3-1 (Contd)

CB-TRACT
WATER LEVELS AND FIELD MEASUREMENTS
ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DY	ST	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA08	83	3	27		6386.7				
		4	28		6387.0	7.6	7.8		1180.0
		5	24		6389.5				
WA09	83	1	24		6492.1				
		2	23		6491.0				
		3	27		6492.7				
		4	28		6492.7	9.1	8.0		1170.0
		5	24		6492.7				
WA11	83	1	31		6450.2				
		2	22		6450.1				
		3	27		6451.0				
		4	28		6451.6				
		5	24		6450.9				
WA12	83	1	31		6638.4				
		2	22		6638.7				
		3	27		6638.8				
		4	28		6640.9	8.0	7.7		1570.0
		5	24		6641.6				
WA55	83	2	23		6436.1				
		4	28		6441.2	7.4	7.7		1320.0
		5	27		6445.0				
WA56	83	2	23		6436.9				
		4	28		6439.0	7.6	7.8		1420.0
		5	27		6443.0				

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSIBLE

TABLE 1.2.1.3-2

PLOTS OF WATER LEVELS IN ALLUVIAL WELLS

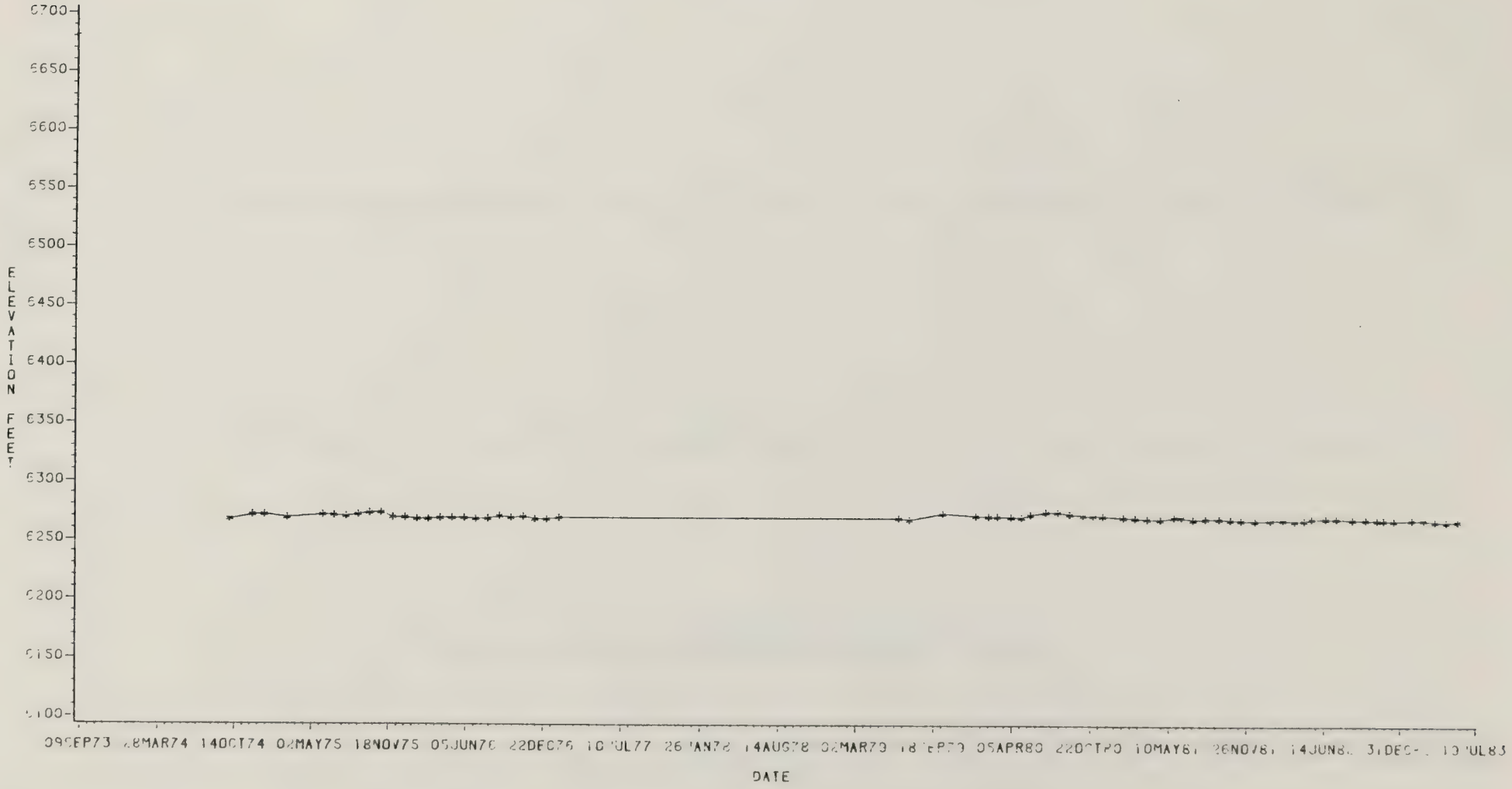
Well No.	Computer Code	Page No.
A-1	WA01	I-70
A-2	WA02	I-71
A-3	WA03	I-72
A-5	WA05	I-73
A-6	WA06	I-74
A-7	WA07	I-75
A-8	WA08	I-76
A-9	WA09	I-77
A-10	WA10	I-78
A-11	WA11	I-79
A-12	WA12	I-80
A-5A	WA55	I-81
A-5B	WA56	I-82

WATER LEVEL PLOTS IN ALLUVIAL WELLS

LOC=WAGT

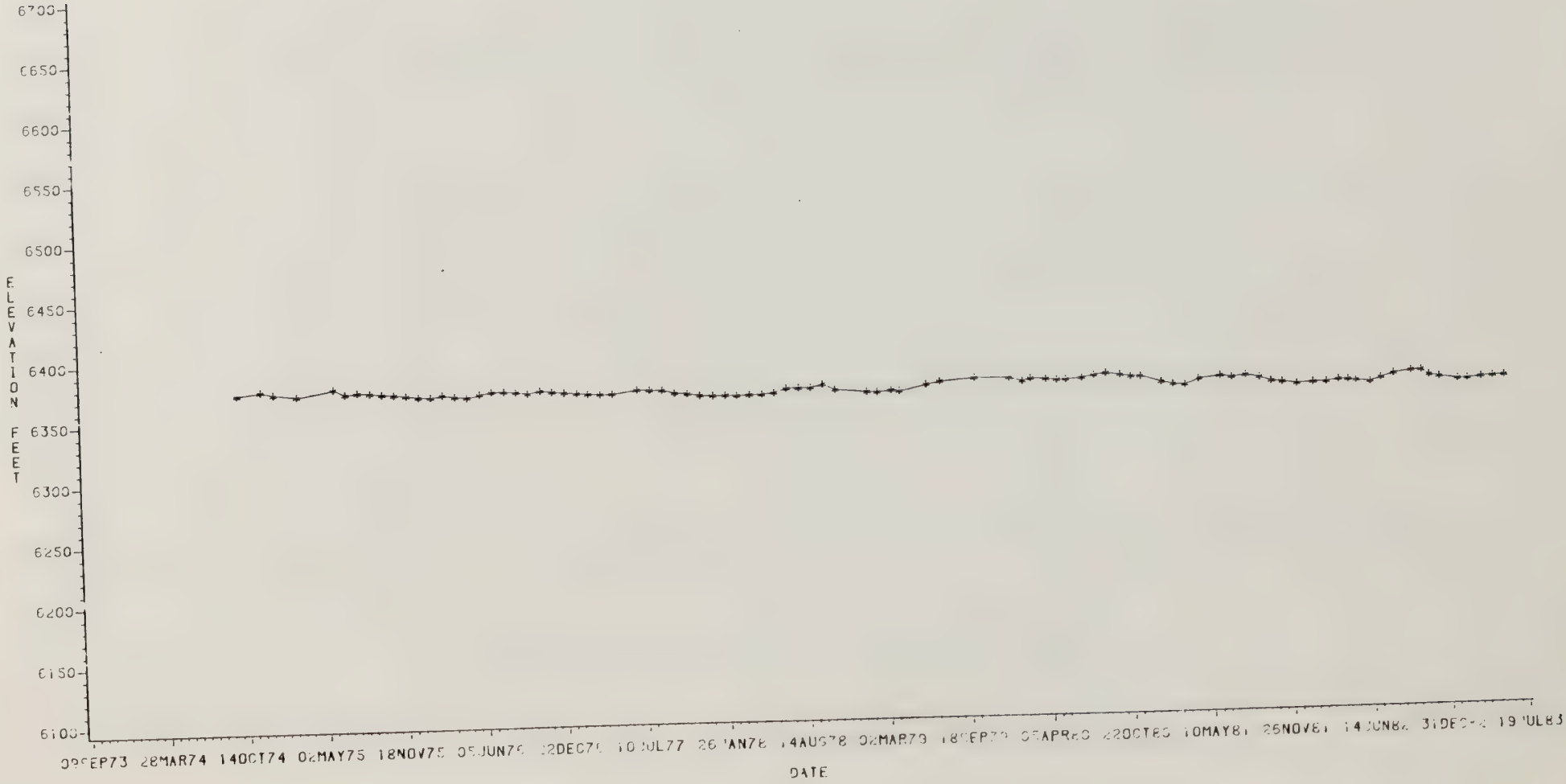
WATER LEVEL PLOTS IN ALLUVIAL WELLS

LOC=WA02



WATER LEVEL PLOTS IN ALLUVIAL WELLS

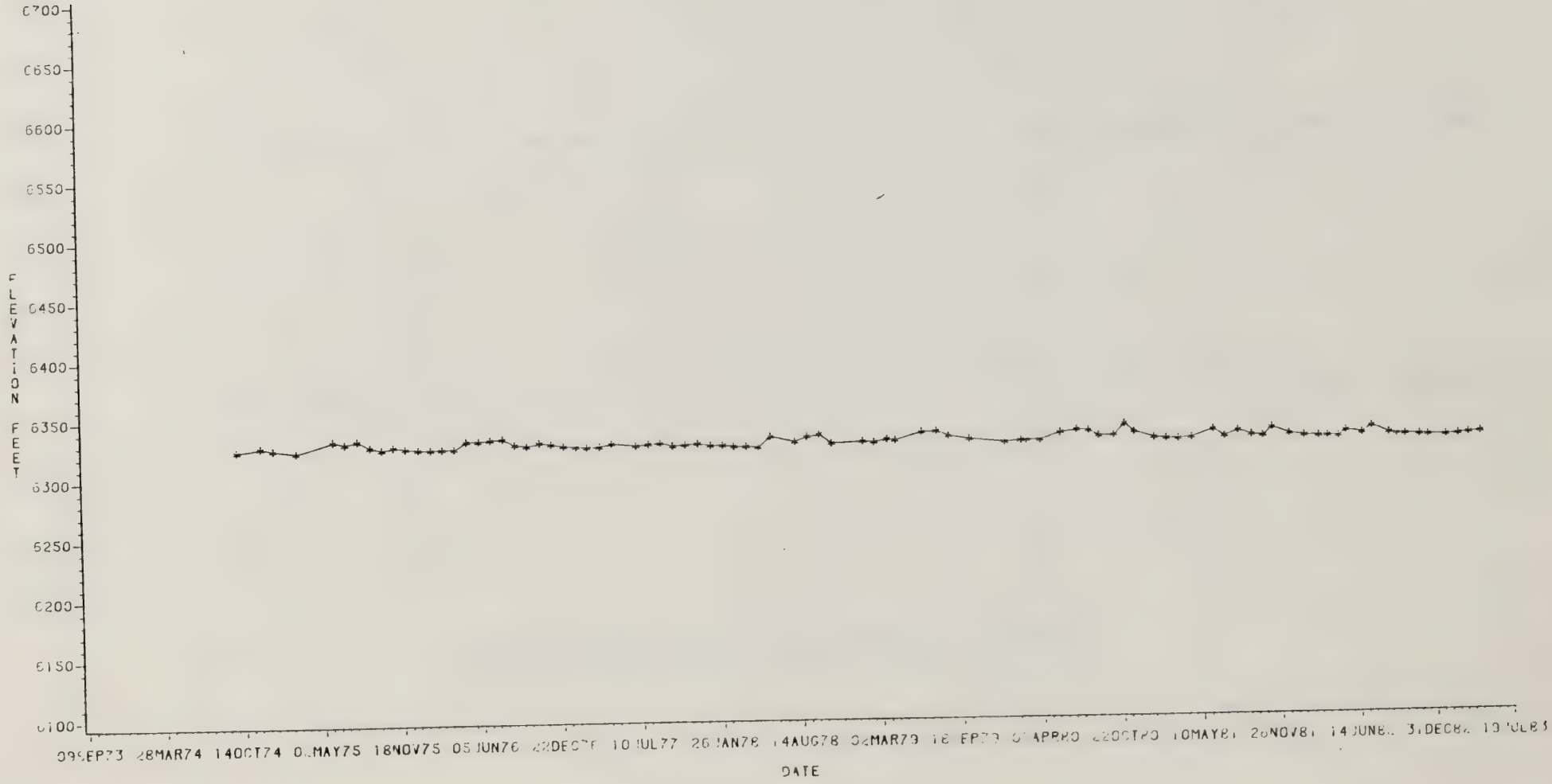
LOC=WA03



WATER LEVEL PLOTS IN ALLUVIAL WELLS

LOC=WA05

WATER LEVEL PLOTS IN ALLUVIAL WELLS

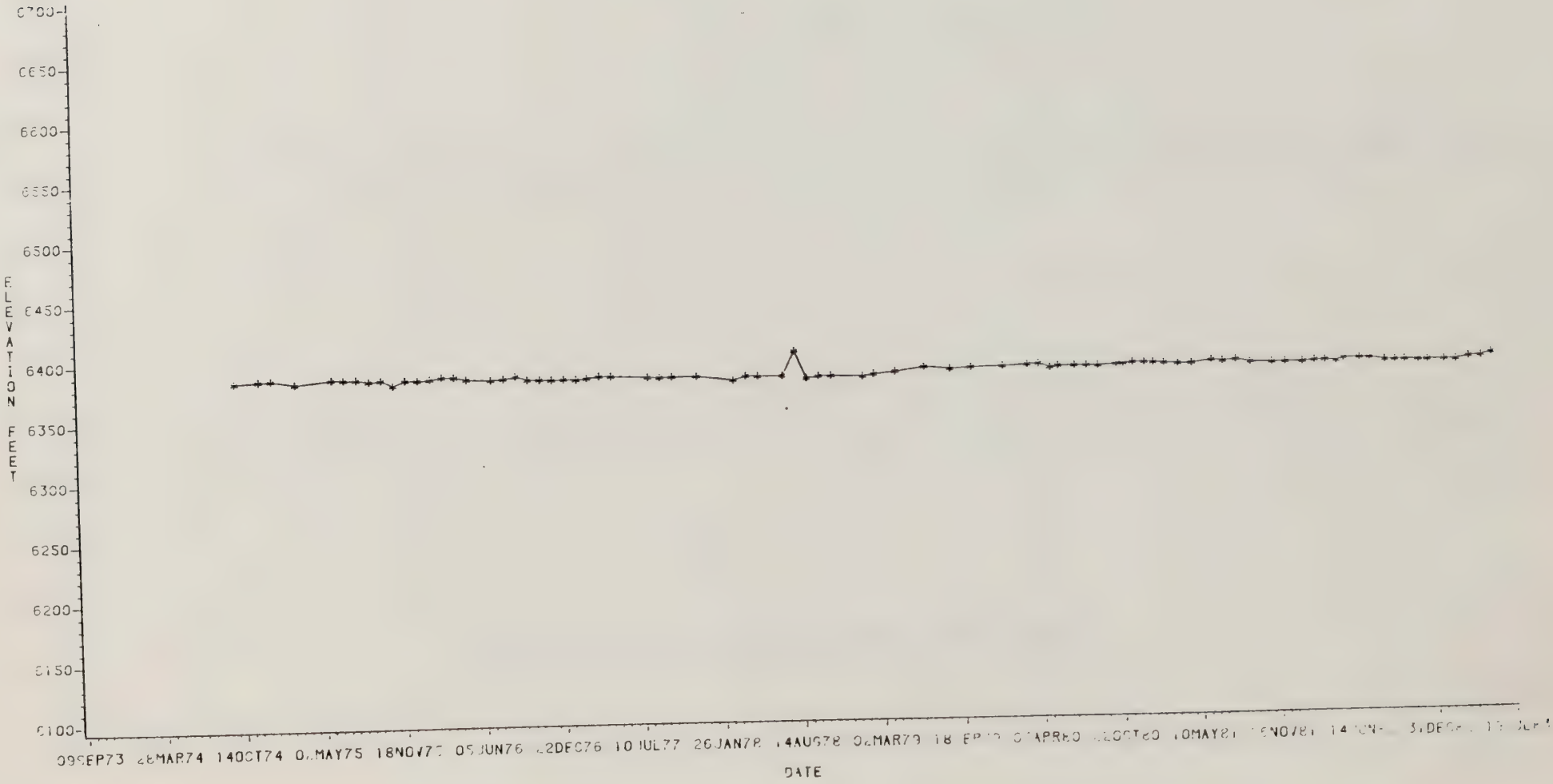


WATER LEVEL PLOTS IN ALLUVIAL WELLS

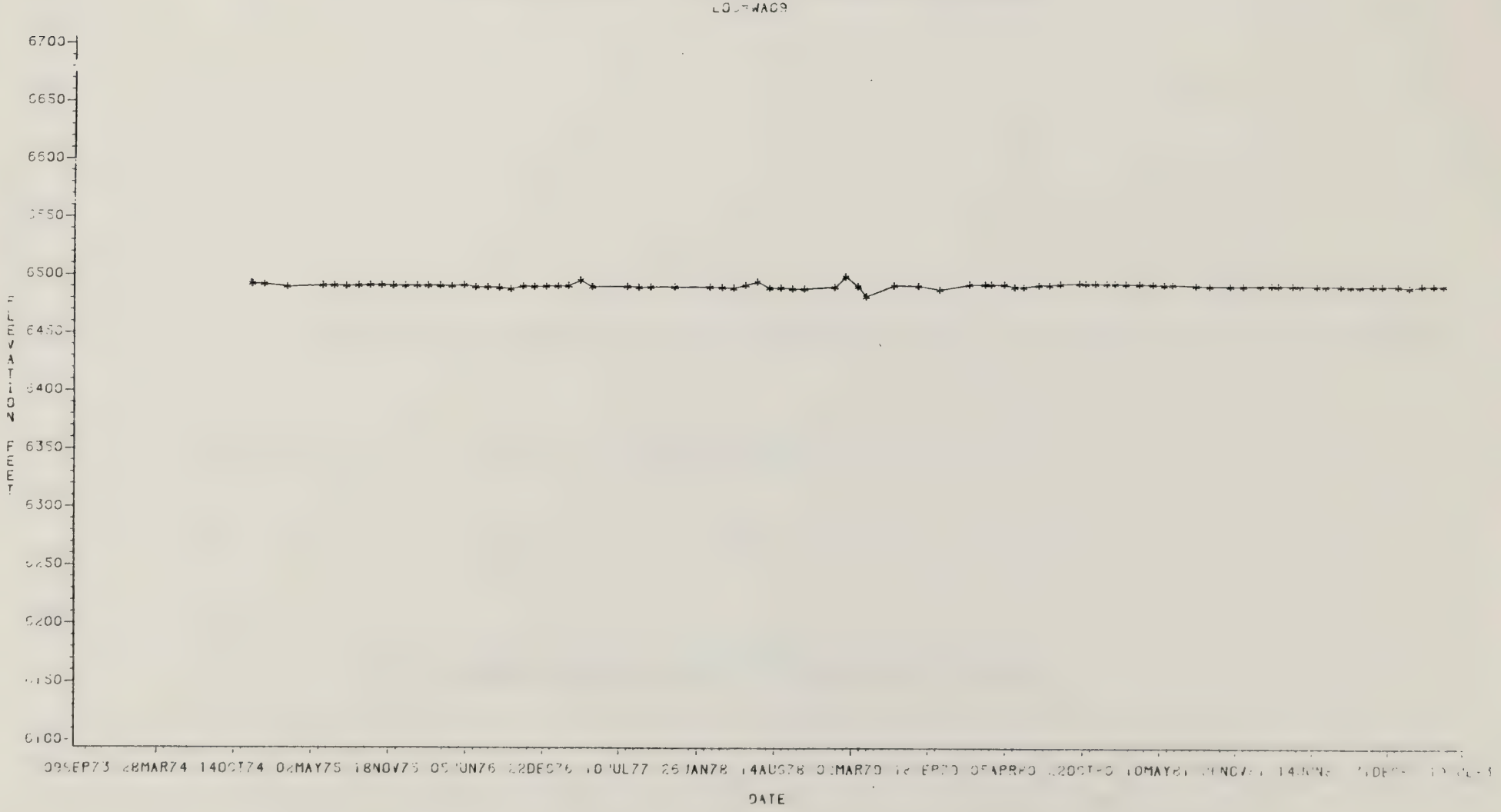
LOC=WAC7

WATER LEVEL PLOTS IN ALLUVIAL WELLS

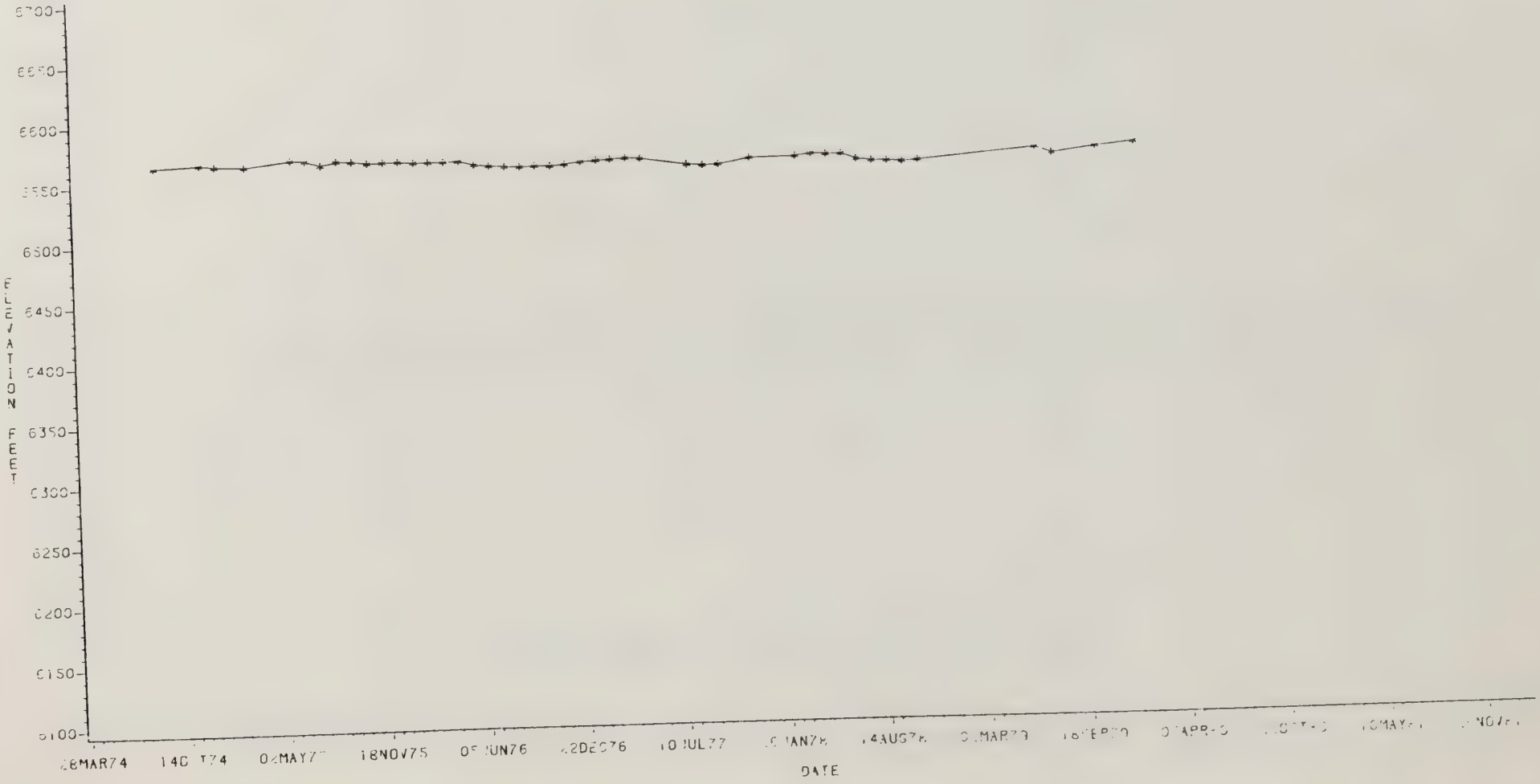
LOCATION



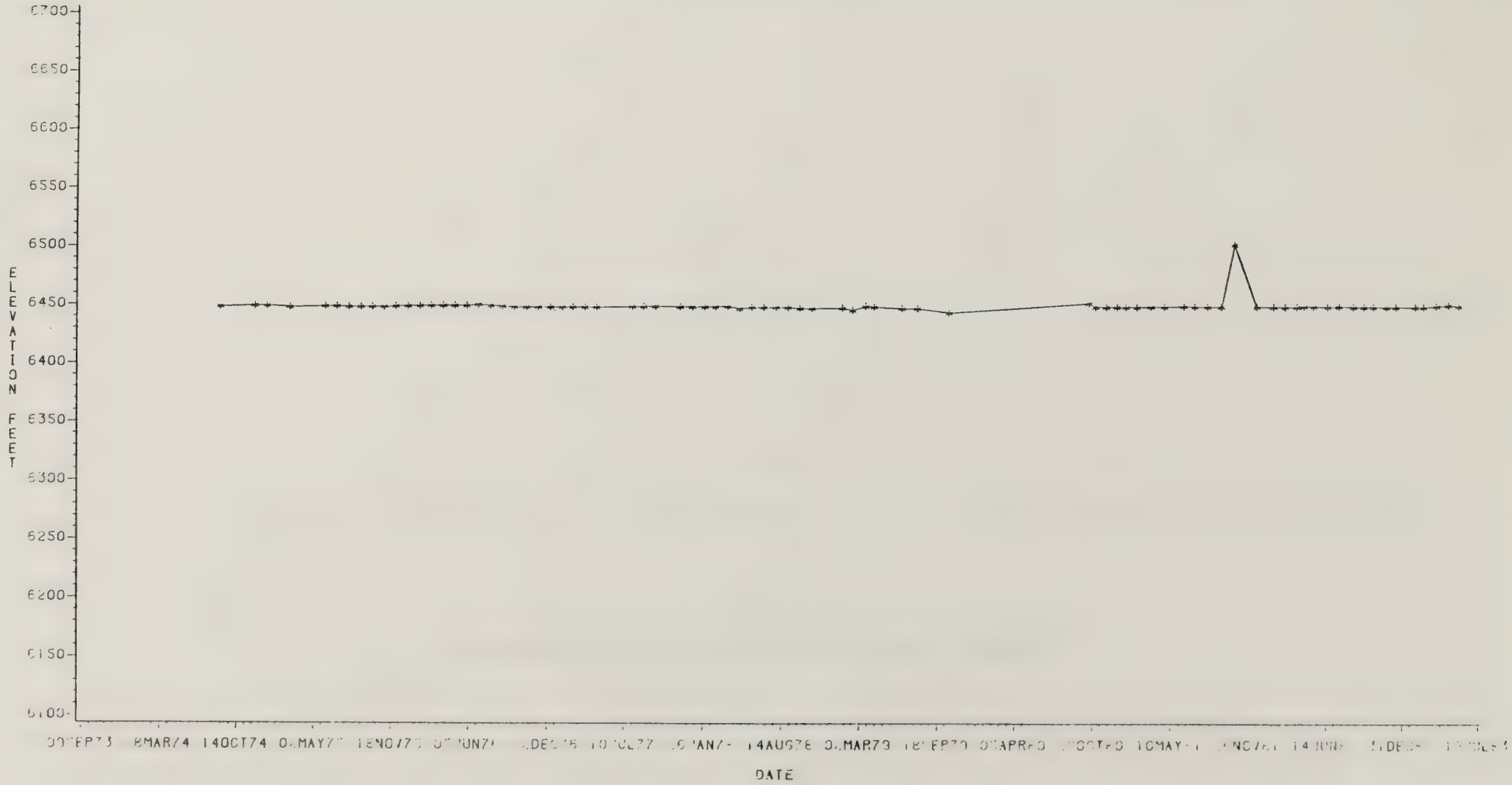
WATER LEVEL PLOTS IN ALLUVIAL WELLS



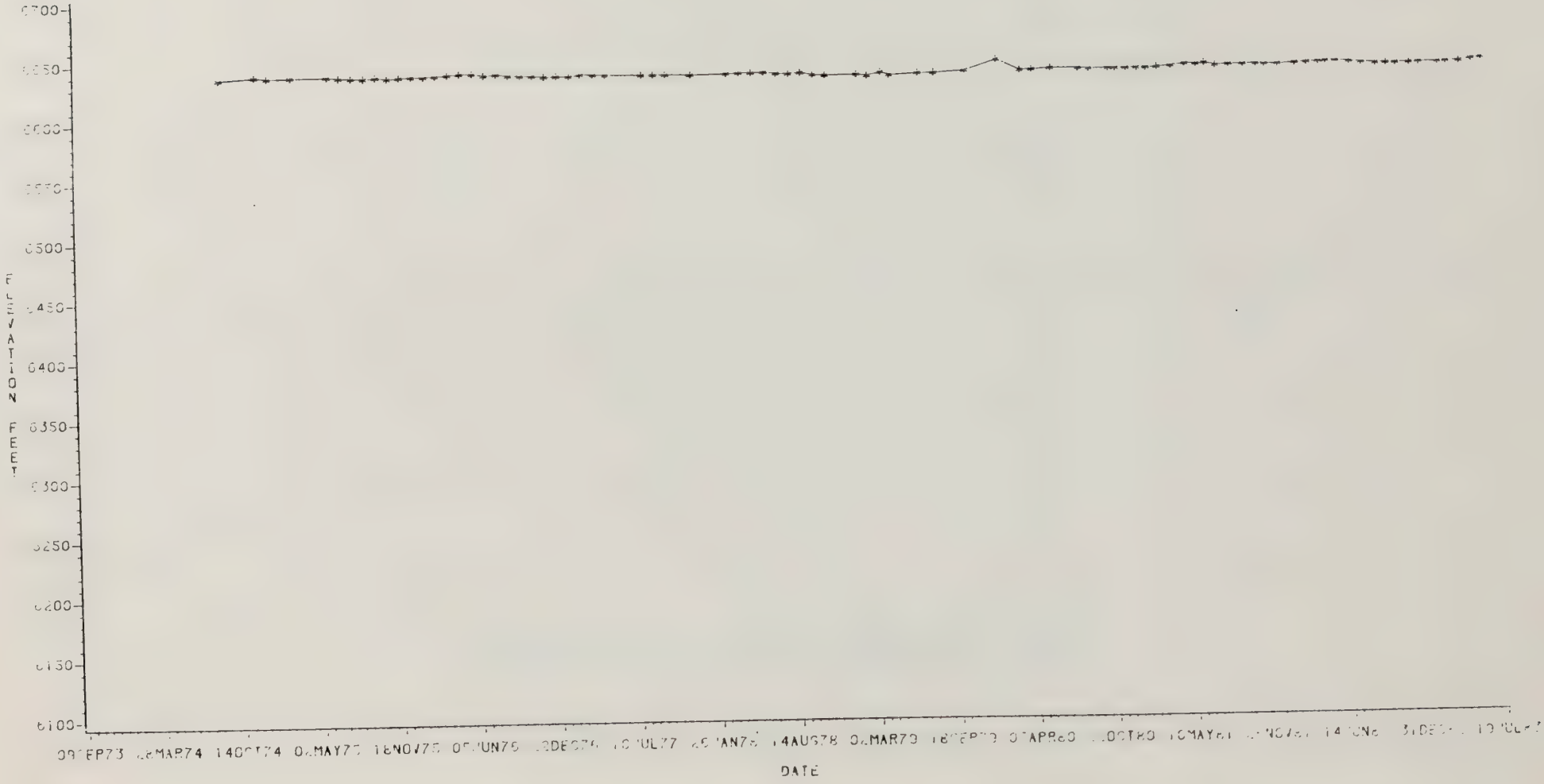
WATER LEVEL PLOTS IN ALLUVIAL WELLS



WATER LEVEL PLOTS IN ALLUVIAL WELLS

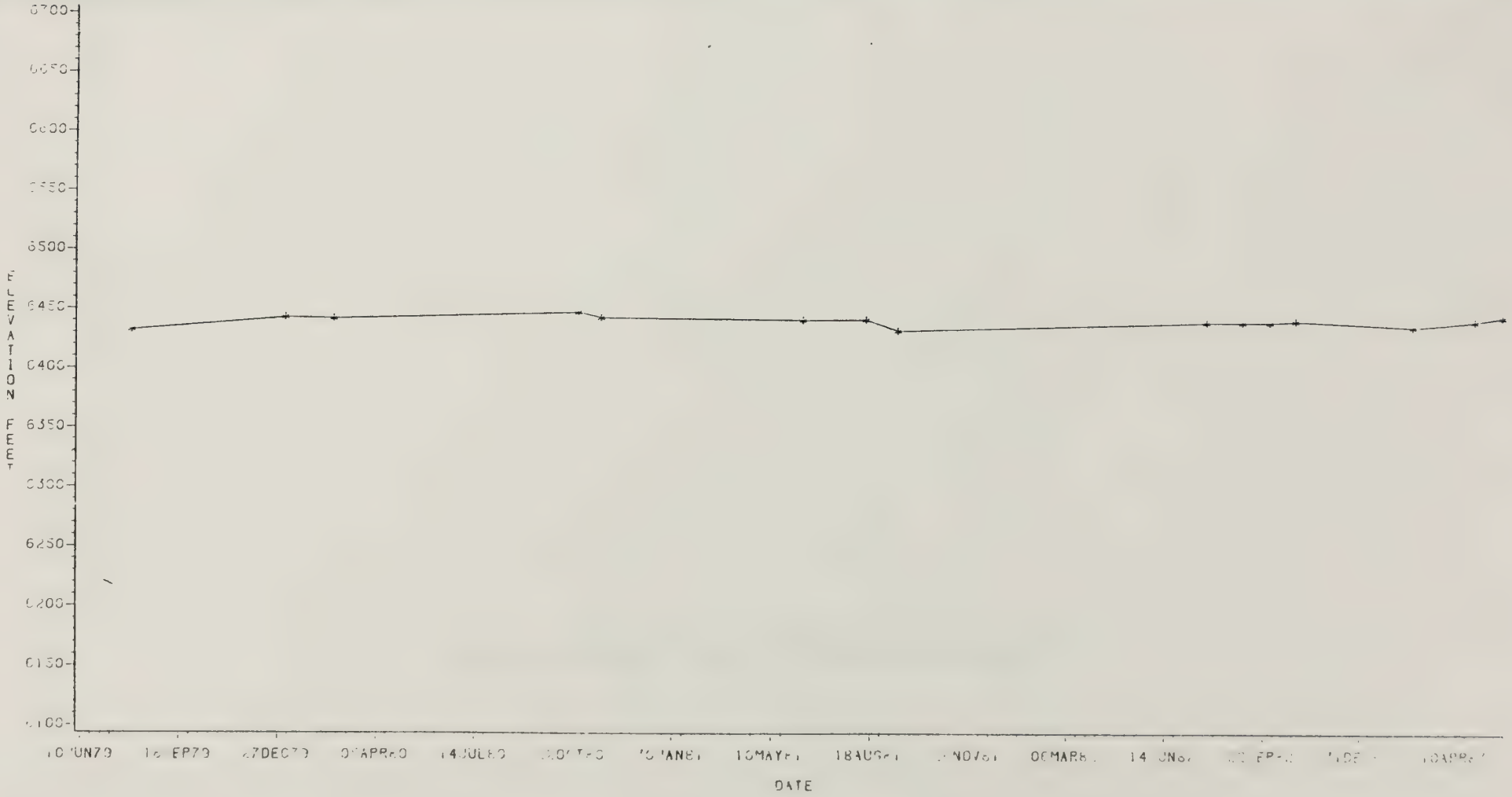


WATER LEVEL PLOTS IN ALLUVIAL WELLS



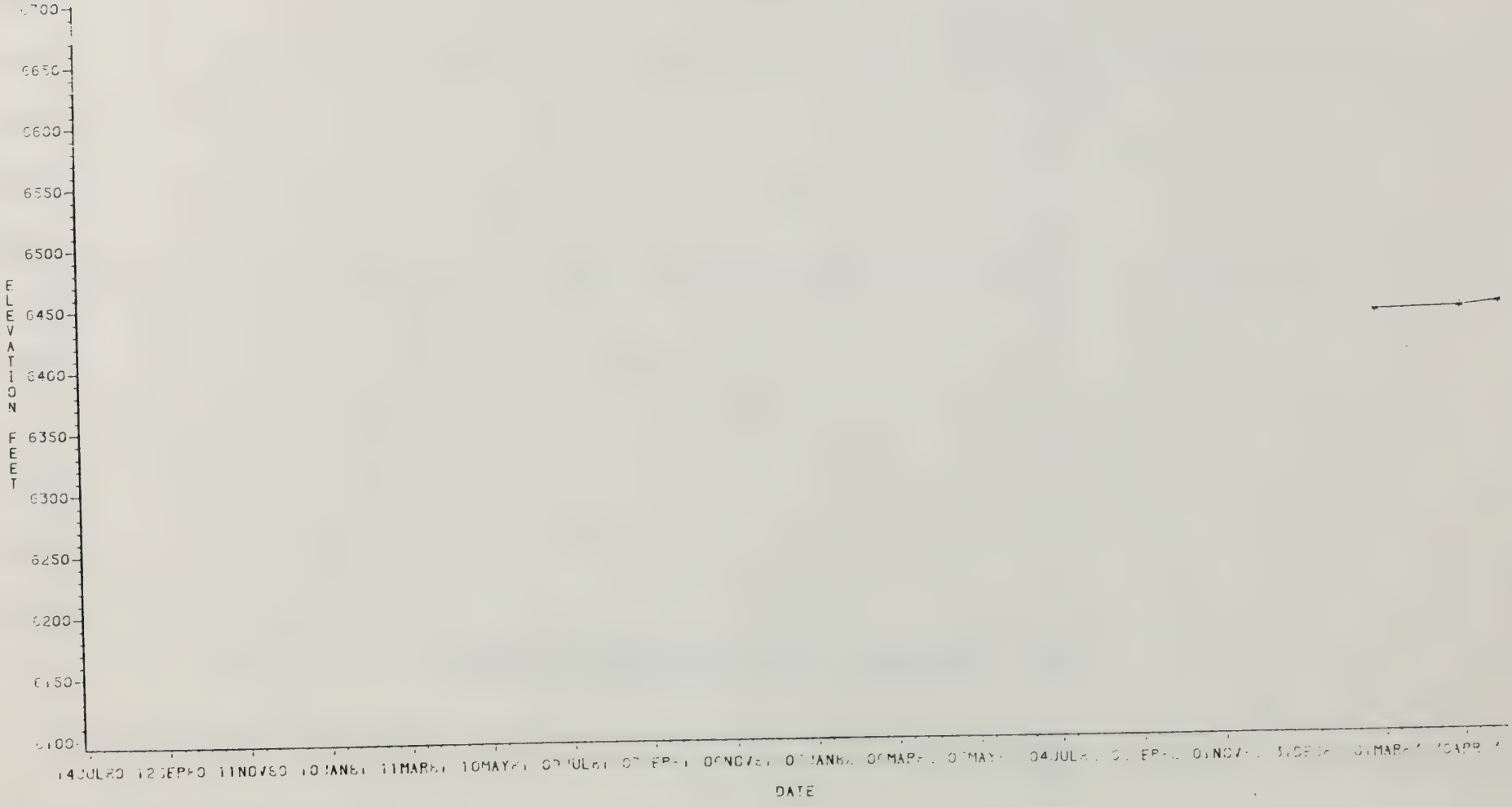
WATER LEVEL PLOTS IN ALLUVIAL WELLS

LOC=WASS



WATER LEVEL PLOTS IN ALLUVIAL WELLS

LOCHWASS



BEDROCK
WELLS

1.2.1.4 Bedrock Wells

This section contains well water elevation readings sampled below the alluvium formation. Data are presented in tabular format for sample period January 1983 through May 1983 and time series plots for 1979 through May 1983. Monitoring of these wells are a requirement of the Interim Monitoring Program (IMP) and the Water Augmentation Plan (WAP), State of Colorado Court, Division 5.

Deep well monitoring network on C-b Tract is presented in 2 figures in this section; Figures 1.2.1.4-1 and 1.2.1.4-2. Well computer codes on these figures are defined as such:

Uinta formation	- WC$$
Upper Parachute Creek 1 (UPC_1)	- WD$$
Upper Parachute Creek 2 (UPC_2)	- WE$$
Lower Parachute Creek 3 (LPC_3)	- WG$$
Lower Parachute Creek 4 (LPC_4)	- WH$$
Upper Aquifer Zone	- WX$$
Lower Aquifer Zone	- WY$$

Sampling frequencies for these wells vary by type, location (in respect to Tract) and purpose of monitoring. Table 1.2-1 references formation of recompletion and sampling requirements for each well. This table replaced Exhibit B, which displayed monitoring requirements for the WAP during development on C-b Tract.

Tables and figures of data reported in this section are presented in the following list:

Table No.	Title	Page No.
Table 1.2.1.4-1	Water Levels - Uinta Formation Zone	I-87
Table 1.2.1.4-2	Water Levels - Upper Parachute Creek 1	I-88
Table 1.2.1.4-3	Water Levels - Upper Parachute Creek 2	I-90
Table 1.2.1.4-4	Water Levels - Lower Parachute Creek	I-91
Table 1.2.1.4-5	Water Levels - Upper Aquifer Wells	I-92
Table 1.2.1.4-6	Water Levels - Upper Aquifer Wells Required by WAP	I-93
Table 1.2.1.4-7	Water Levels - Lower Aquifer Wells	I-94
Table 1.2.1.4-8	Water Levels - Lower Aquifer Wells Required by WAP	I-95
Table 1.2.1.4-9	Water Levels - Composite Wells	I-96
Table 1.2.1.4-10	Stevens Recorder Daily Water Levels - Upper Aquifer Wells	I-97
Table 1.2.1.4-11	Stevens Recorder Daily Water Levels - Lower Aquifer Wells	I-99
Table 1.2.1.4-12	Stevens Recorder Daily Water Levels - Upper Parachute Creek 1	I-101
Table 1.2.1.4-13	Stevens Recorder Daily Water Levels - Lower Parachute Creek	I-104

Table No.	Title	Page No.
Table 1.2.1.4-14	List of Bedrock Well Water Levels - Time Series Plots	I-107
Table 1.2.1.4-15	List of Upper Aquifer Well Water Levels - Time Series Plots	I-129
Table 1.2.1.4-16	List of Lower Aquifer Well Water Levels - Time Series Plots	I-138
Table 1.2.1.4-17	List of Composite Well Water Levels - Time Series Plots	I-153

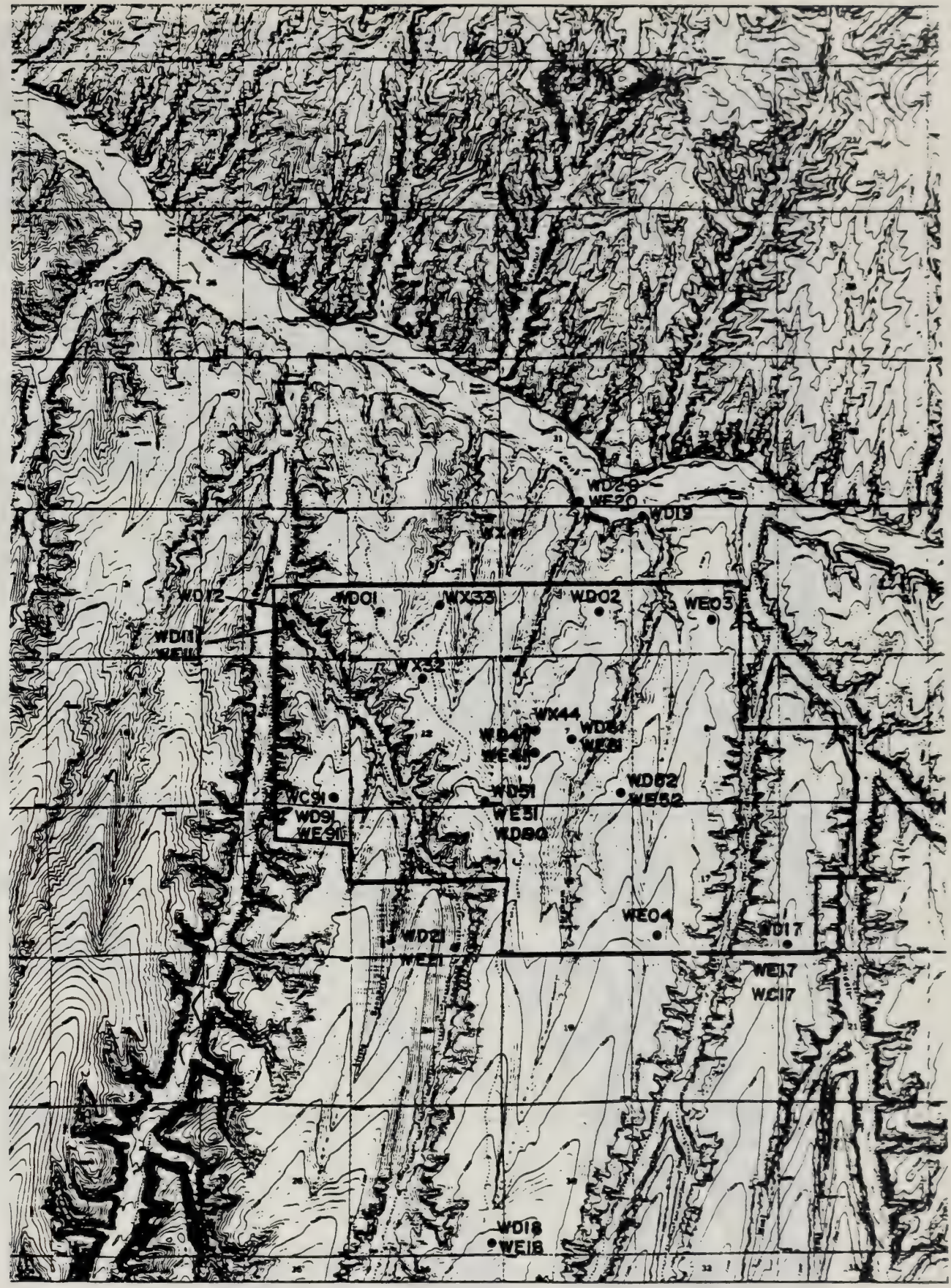


Figure 1.2.1.4-1

DEEP WELL MONITORING NETWORK NEAR C-b TRACT

FOR UPC_1, UPC_2 ZONES

Figure 1.2.1.4-2

DEEP WELL MONITORING NETWORK NEAR C-b TRACT

FOR LPC_3, LPC_4 ZONES

Table 1.2.1.4-1

CB-TRACT
WATER LEVELS
UINTA FORMATION ZONE
FOR SAMPLE DATE SHOWN

			WELL ID	
			WC17	WC91
			DEPTH	DEPTH
YR	MO	DY	(FT)	(FT)
83	2	22	6650	
		23		6522
	4	28	6664	
		29		6521

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-2

CB-TRACT
WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD02 ELEV (FT)	WD11 ELEV (FT)	WD12 ELEV (FT)	WD14 ELEV (FT)	WD15 ELEV (FT)	WD17 ELEV (FT)	WD18 ELEV (FT)	WD19 ELEV (FT)
83	1	7	6402			6493	6510			
		13							6914	
		21			6350					
		28								6348
	2	22				6491	6506	6659		
		23			6350					
		25	6401							6349
	3	25				6489	6505			
		26	6401							
		27			6350					6348
	4	20	6401							
		27				6487	6503			
		28						6657		6349
		29		6348	6351				6915	
	5	26	6405							
		29			6351					
		31				6485	6503			INACSS

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-2 (Contd)

CB-TRACT
WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD20 ELEV (FT)	WD21 ELEV (FT)	WD41 ELEV (FT)	WD51 ELEV (FT)	WD52 ELEV (FT)	WD57 ELEV (FT)	WD61 ELEV (FT)	WD90 ELEV (FT)	WD91 ELEV (FT)
83	1	7							6534		
		11								6641	
		14					6590				
		21		6700							
		28	6328								
	2	22			6517	6640	6587	6638		6635	
		23		6700							6486
		25	6328						6532	6635	
	3	25					6585				
		26				6635			6532	6631	
		27	6328								
		30		6699							
	4	20							6534		
		27				6631				6627	
		28	6328					6638			
		29		6699	6513						6485
		30					6583				
	5	24				6628	6583			6624	
		28		6699							
		31			6513				6534		

PLUGGED = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL DRY
INACCS = WELL INACCESSABLE

Table 1.2.1.4-3

CB-TRACT
WATER LEVELS
UPPER PARACHUTE - CREEK 2
FOR SAMPLE DATE SHOWN

MO	DY	WE03 ELEV (FT)	WE04 ELEV (FT)	WE11 ELEV (FT)	WE17 ELEV (FT)	WE18 ELEV (FT)	WE20 ELEV (FT)	WE21 ELEV (FT)	WE41 ELEV (FT)	WE51 ELEV (FT)	WE52 ELEV (FT)	WE61 ELEV (FT)	WE91 ELEV (FT)
												6535	
1	7					6915							
	13										6587		
	14	6361	6657					6663					
	21						6330						
	28								6477	6586	6584		
2	22	6361	6657		6630			6655					6459
	23											6532	
	25						6330				6582		
3	25	6361	6658							6573		6532	
	26						6329						
	27							6651					
	30											6533	
4	20									6564			
	27						6329						
	28				6627								6455
	29			6344		6915		6647	6472		6578		
	30	6361	6659							6556	6576		
5	24	6361	6658					6643					
	28								6470			6534	
	31												

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-4

CB-TRACT
WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

			WG - LPC3						WH - LPC4				
YR	MO	DY	WG12 ELEV (FT)	WG17 ELEV (FT)	WG18 ELEV (FT)	WG20 ELEV (FT)	WG21 ELEV (FT)	WG41 ELEV (FT)	WG51 ELEV (FT)	WG52 ELEV (FT)	WG61 ELEV (FT)	WG91 ELEV (FT)	WH21 ELEV (FT)
83	1	7									6324		
		13			6840								
		14								6457			
		21	6254				6663						6663
		28				6330							
	2	22		6630				6328	6399	6452			
		23	6254				6655					6343	6654
		25				6330					6313		
	3	25								6448			
		26							6392		6305		
		27	6258			6329							
		30					6651						6650
	4	20									6301		
		27							6386				
		28		6627		6329							
		29	6266		6841		6647	6313				6334	6647
		30								6444			
	5	24							6381	6441			
		28											6643
		29	6269										
		31				INACSS		6307			6293		

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-5

C8-TRACT
WATER LEVELS IN UPPER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

		WELL ID - M.P. ELEV (FT)	
		WX32	WX44
YR	MO	DEPTH (FT)	DEPTH (FT)
83	1	5953	6479
	2	5953	6477
	3		6474
	4	5948	6452
	5		6468

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-6

CB-TRACT
WATER LEVELS IN UPPER AQUIFER WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

		WELL ID - MEASURING POINT ELEVATION (FT)						
YR	MO	WX64 DEPTH (FT)	WX65 DEPTH (FT)	WX67 DEPTH (FT)	WX69 DEPTH (FT)	WX71 DEPTH (FT)	WX72 DEPTH (FT)	WX73 DEPTH (FT)
83	1	6769		6307				7646
	2		6330				6759	
	4	6769	6330	6308	NS	CAPPED	6758	7647

NS = NOT SAMPLED
CAPPED = WELL HEAD CAPPED

Table 1.2.1.4-7

CB-TRACT
WATER LEVELS IN LOWER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

		WELL ID-M.P. ELEV(FT)			
		WY44	WY45	WY46	WY81
YR	MO	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
83	1	6341	6339	6340	6534
	2	6328	6331	6328	6532
	3	6320	6323	6319	6534
	4	6313	6317	6312	6533
	5	6306	6311	6306	6533

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.4-8

CB-TRACT
WATER LEVELS IN LOWER AQUIFER WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

		WELL ID - MEASURING POINT ELEVATION (FT)													
YR	MO	WY64 DEPTH (FT)	WY65 DEPTH (FT)	WY66 DEPTH (FT)	WY67 DEPTH (FT)	WY68 DEPTH (FT)	WY69 DEPTH (FT)	WY70 DEPTH (FT)	WY71 DEPTH (FT)	WY72 DEPTH (FT)	WY75 DEPTH (FT)	WY76 DEPTH (FT)	WY77 DEPTH (FT)	WY78 DEPTH (FT)	WY79 DEPTH (FT)
83	1	6436			6234	6487	6888				6771	6870	FLWING	7075	
	2		6312	FLWING				6960	6571	6773					6626
	4	6435	6312	FLWING	6234	6487	6888	6961	6570	6773	6772	6870	FLWING	7075	6626

FLWING = WELL FLOWING

Table 1.2.1.4-9

CB-TRACT
WATER LEVELS IN COMPOSITE WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

		WELL ID - MEASURING POINT ELEVATION (FT)						
		WV01	WV02	WV03	WV04	WV05	WV10	WV37
		DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
YR	MO	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)
83	1		FLWING	FLWING	FLWING	7358	6583	6539
	2	6330						6523
	3							6516
	4	6330	FLWING	FLWING		7359	6581	6511
	5							6509

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE
NS = NOT SAMPLED
CAPPED = WELL HEAD CAPPED

Table 1.2.1.4-10

CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL WX38 DEPTH (FT)
YR	MO	DY	
83	1	1	6477.64
		2	6477.57
		3	6477.44
		4	6477.24
		5	6477.14
		6	6477.05
		7	6476.88
		8	6476.84
		9	6476.65
		10	6476.38
		11	6476.27
		12	6476.25
		13	6476.09
		14	6476.04
		15	6476.06
		16	6476.07
		17	6476.01
		18	6475.92
		19	6475.92
		20	6475.85
		21	6475.68
		22	6475.63
		23	6475.51
		24	6475.52
		25	6475.36
		26	6475.36
		27	6475.33
		28	6475.10
		29	6475.13
		30	6475.09
		31	6475.06
	2	1	6474.99
		2	6474.99
		3	6474.96
		4	6474.87
		5	6474.74
		6	6474.70
		7	6474.63
		8	6474.42
		9	6474.36
		10	6474.14
		11	6474.02
		12	6473.97
		13	6473.77
		14	6473.59

Table 1.2.1.4-10 (Contd)

CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL
			WX38
YR	MO	DY	DEPTH (FT)
83	2	15	6473.56
		16	6473.37
		17	6473.31
		18	6473.38
		19	6473.07
		20	6473.02
		21	6472.98
		22	6472.92
		23	6472.88
		24	6472.82
		25	6472.75
		26	6472.63
		27	6472.61
		28	6472.55
	3	1	6472.53
		2	6472.56
		3	6472.67
		4	6472.62
		5	6472.39
		6	6472.30
		7	6472.13
		8	6471.93
		9	6471.86
		10	6471.79
		11	6471.69
		12	6471.65
		13	6471.71
		14	6471.62
		15	6471.43
		16	6471.41
		17	6471.52
		18	6471.45
		19	6471.29
		20	6471.27
		21	6471.28
		22	6471.19
		23	6471.12
		24	6471.20
		25	6470.99

CB-TRACT
STEVENS RECORDER WATER LEVELS
LOWER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL WY44 DEPTH (FT)
YR	MO	DY	
83	1	4	6368.07
		5	6367.73
		6	6367.40
		7	6366.97
		8	6366.73
		9	6366.22
		10	6366.07
		11	6340.83
		12	6340.55
		13	6340.16
		14	6339.82
		15	6339.56
		16	6339.34
		17	6339.04
		18	6338.71
		19	6338.44
		20	6338.13
		21	6337.66
		22	6337.31
		23	6336.91
		24	6336.65
		25	6336.24
		26	6335.94
		27	6335.78
		28	6335.33
		29	6335.12
		30	6334.82
		31	6334.52
	2	1	6334.26
		2	6333.94
		3	6333.64
		4	6333.32
		5	6332.96
		6	6332.63
		7	6332.33
		8	6332.01
		9	6331.66
		10	6331.31
		11	6330.98
		12	6330.71
		13	6330.53
		14	6330.11
		15	6329.85
		16	6329.61
		17	6329.27

CB-TRACT
STEVENS RECORDER WATER LEVELS
LOWER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL WY44 DEPTH (FT)
YR	MO	DY	
83	2	18	6329.23
		19	6328.74
		20	6328.50
		21	6328.21
		22	6327.99
		23	6327.75
		24	6327.45
		25	6327.22
		26	6326.94
		27	6326.68
		28	6326.40
	3	1	6326.15
		2	6325.99
		3	6325.85
		4	6325.55
		5	6325.17
		6	6324.85
		7	6324.55
		8	6324.19
		9	6324.27
		10	6324.05
		11	6323.76
		12	6323.53
		13	6323.35
		14	6323.14
		15	6322.83
		16	6322.65
		17	6322.53
		18	6322.27
		19	6321.91
		20	6321.64
		21	6321.48
		22	6321.17
		23	6320.91
		24	6320.82
		25	6320.46
		26	6320.23

CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD90 DEPTH (FT)
83	1	1	.00	6643.55
		2	.00	6643.45
		3	.00	6643.36
		4	.00	6643.12
		5	.00	6642.95
		6	.00	6642.88
		7	.00	6642.62
		8	.00	6642.62
		9	.00	6642.40
		10	.00	6642.08
		11	.00	6641.79
		12	.00	6641.71
		13	.00	6641.52
		14	.00	6641.39
		15	.00	6641.36
		16	.00	6641.36
		17	.00	6641.38
		18	.00	6641.16
		19	.00	6641.09
		20	.00	6640.98
		21	6350.41	6640.69
		22	6350.33	6640.44
		23	6350.21	6640.16
		24	6350.21	6640.16
		25	6350.19	6639.77
		26	6350.18	6639.69
		27	6350.19	6639.71
		28	6350.18	6639.40
		29	6350.18	6639.39
		30	6350.29	6639.23
		31	6350.29	6639.00
	2	1	6350.27	6638.88
		2	6350.26	6638.73
		3	6350.27	6638.58
		4	6350.19	6638.51
		5	6350.18	6638.17
		6	6350.21	6638.00
		7	6350.18	6637.93
		8	6350.16	6637.80
		9	6350.02	6637.54
		10	6349.95	6637.30
		11	6350.02	6636.98
		12	6350.08	6636.91
		13	6350.00	6636.90
		14	6350.09	6636.60

Table 1.2.1.4-12 (Contd)

CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD90 DEPTH (FT)
83	2	15	6350.01	6636.53
		16	6350.03	6636.36
		17	6350.13	6636.16
		18	6350.04	6636.16
		19	6350.02	6635.95
		20	6350.03	6635.71
		21	6350.07	6635.59
		22	6350.13	6635.50
		23	6350.18	6635.56
		24	6350.21	6635.53
		25	6350.18	6635.15
		26	6350.19	6635.05
		27	6350.17	6634.92
		28	6350.23	6634.75
	3	1	6350.29	6634.68
		2	6350.41	6634.79
		3	6350.31	6634.85
		4	6350.22	6634.78
		5	6350.17	6634.35
		6	6350.09	6634.01
		7	6350.03	6633.81
		8	6350.07	6633.48
		9	6350.13	6633.38
		10	6350.16	6633.33
		11	6350.19	6633.25
		12	6350.33	6633.13
		13	6350.37	6633.10
		14	6350.29	6633.11
		15	6350.38	6632.83
		16	6350.55	6632.74
		17	6350.47	6632.77
		18	6350.37	6632.80
		19	6350.37	6632.51
		20	6350.49	6632.25
		21	6350.47	6632.24
		22	6350.45	6632.16
		23	6350.63	6632.06
		24	6350.43	6632.05
		25	6350.36	6631.98
		26		6631.58
		27		6631.41
		28		6631.33
		29		6631.11
		30		6631.06
		31		6631.10

Table I.2.1.4-12 (Contd)

CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD90 DEPTH (FT)
83	4	1		6630.80
		2		6630.80
		3		6630.99
		4		6630.62
		5		6630.36
		6		6630.13
		7		6630.01
		8		6629.74
		9		6629.64
		10		6629.67
		11		6629.58
		12		6629.23
		13		6628.93
		14		6628.39
		15		6628.37
		16		6628.30
		17		6628.10
		18		6627.79
		19		6627.50
		20		6627.50
		21		6627.61
		22		6627.09
		23		6627.02
		24		6626.96
		25		6626.52
		26		6626.25
		27		6626.25
		28		6626.35
		29		6626.17
		30		6625.87
	5	1		6625.88
		2		6626.02
		3		6625.99
		4		6625.41
		5		6625.29
		6		6625.18
		7		6625.16
		8		6624.84
		9		6624.81
		10		6624.61
		11		6624.59
		12		6624.44
		13		6624.33
		14		6624.28

Table 1.2.1.4-13

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

WG - LPC3 WH - LPC4

YR	MO	DY	WG12 DEPTH (FT)
83	1	1	6254.32
		2	6254.13
		3	6254.10
		4	6254.10
		5	6254.09
		6	6254.09
		7	6254.09
		8	6254.10
		9	6254.05
		10	6254.04
		11	6254.04
		12	6254.04
		13	6254.04
		14	6254.04
		15	6254.15
		16	6254.20
		17	6254.20
		18	6254.20
		19	6254.24
		20	6254.28
		21	6254.30
		22	6254.30
		23	6254.30
		24	6254.30
		25	6254.30
		26	6254.39
		27	6254.39
		28	6254.39
		29	6254.39
		30	6254.39
		31	6254.39
	2	1	6254.39
		2	6254.41
		3	6254.49
		4	6254.49
		5	6254.49
		6	6254.49
		7	6254.49
		8	6254.49
		9	6254.42
		10	6254.41
		11	6254.41
		12	6254.47
		13	6254.41

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

WG - LPC3 WH - LPC4

YR	MO	DY	WG12 DEPTH (FT)
83	2	14	6254.41
		15	6254.38
		16	6254.38
		17	6254.41
		18	6254.30
		19	6254.29
		20	6254.29
		21	6254.29
		22	6254.31
		23	6254.34
		24	6254.36
		25	6254.36
		26	6254.36
		27	6255.88
		28	6255.94
	3	1	6255.98
		2	6256.16
		3	6256.20
		4	6256.21
		5	6256.20
		6	6256.18
		7	6256.17
		8	6256.17
		9	6256.27
		10	6256.37
		11	6256.41
		12	6256.42
		13	6256.47
		14	6257.55
		15	6257.76
		16	6257.99
		17	6258.07
		18	6258.08
		19	6258.09
		20	6258.23
		21	6258.27
		22	6258.34
		23	6258.54
		24	6258.61
		25	6258.71

TABLE 1.2.1.4-14

LIST OF BEDROCK WELL LEVELS TIME SERIES PLOTS

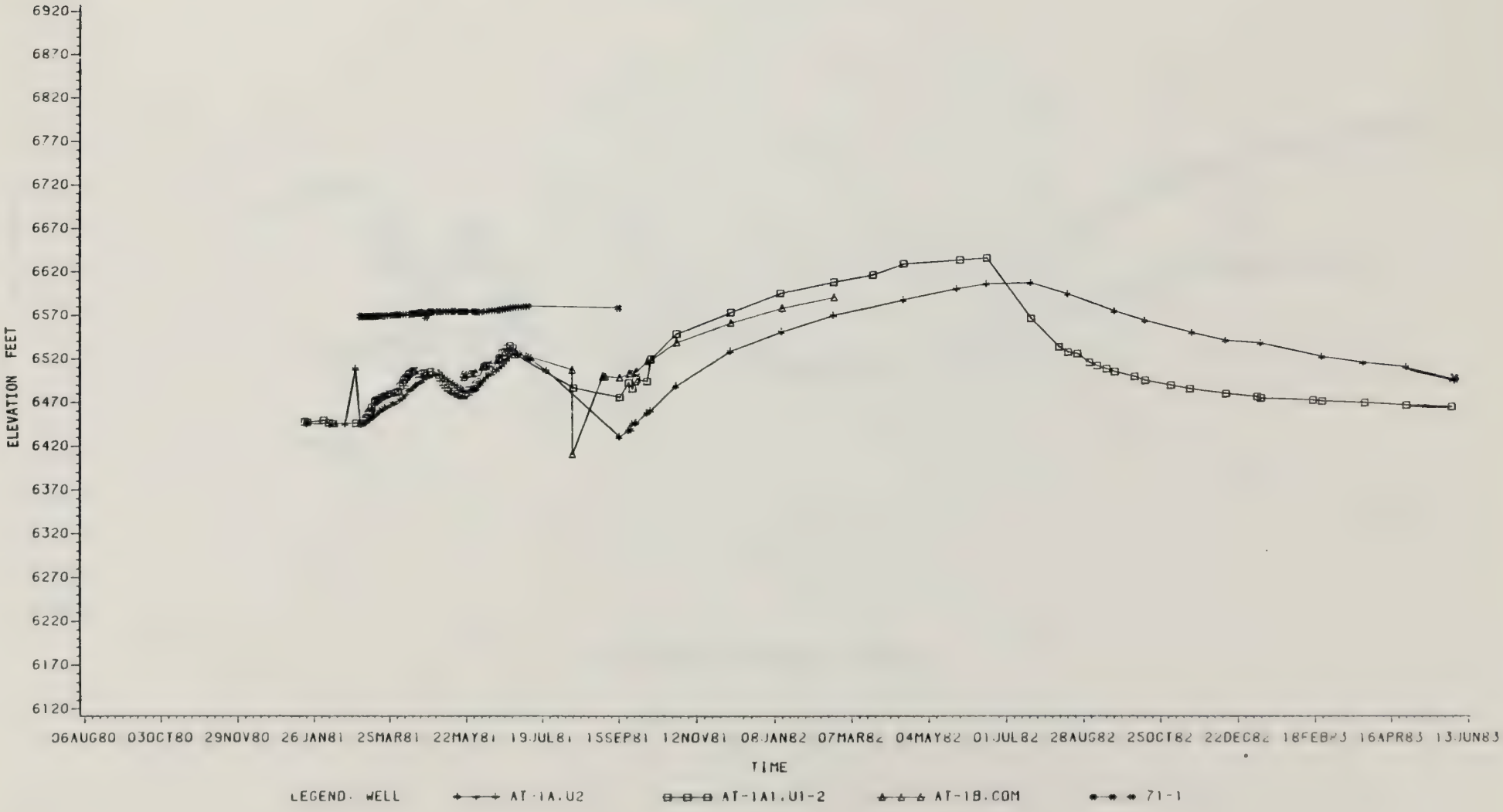
Well	Computer Code	Page No.
AT-1A	WV37	I-109
AT-1A-1	WX38	I-109
AT-1B	WV40	I-109
71-1	C201	I-109
AT-1C-1	WY45	I-110
AT-1C-2	WY46	I-110
AT-1C-3	WX44	I-110
AT-1	WY44	I-111
AT-1D-1	WG41	I-111
AT-1D-2	WE41	I-111
AT-1D-3	WD41	I-111
CB-1	WD01	I-112
CB-2	WD02	I-113
CB-3	WE03	I-113
SG-19	WD19	I-113
CB-4	WE04	I-114
SG-10	WD90	I-114
SG-17A	WD57	I-114
31X12	WW22	I-114
41X13	WW13	I-114
32X12	WX32	I-115
SG-1A-1	WE11	I-116
SG-1A-2	WD11	I-116
SG-1-1	WG12	I-117
SG-1-2	WD12	I-117
SG-6-1	WE61	I-118
SG-6-2	WG61	I-118
SG-6-3	WD61	I-118
SG-8	WY81	I-119
SG-9-1	WG91	I-120
SG-9-2	WE91	I-120
SG-9-3	WD91	I-120
SG-9-4	WC91	I-120
SG-10A-Annulas	WD51	I-121
SG-10A-1	WG51	I-121
SG-10A-2	WE51	I-121
SG-11-1	WG52	I-122
SG-11-2	WE52	I-122
SG-11-3	WD52	I-122

TABLE 1.2.1.4-14 (Contd)

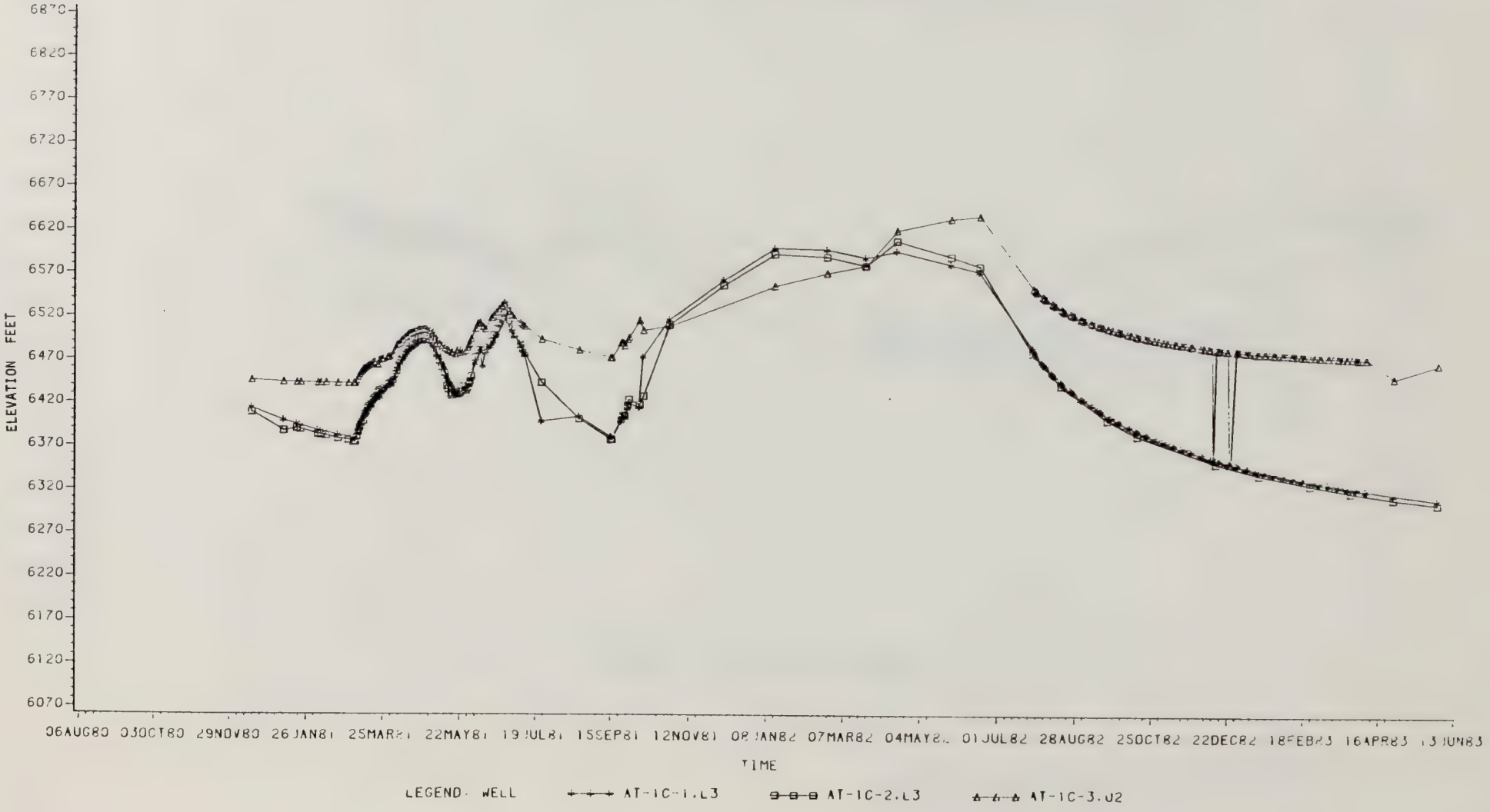
LIST OF BEDROCK WELL LEVELS TIME SERIES PLOTS

Well	Computer Code	Page No.
SG-17-1	WE17	I-123
SG-17-2	WG17	I-123
SG-17-3	WD17	I-123
SG-17-4	WC17	I-123
SG-18A-1	WG18	I-124
SG-18A-2	WE18	I-124
SG-18A-3	WD18	I-124
SG-20-2	WE20	I-125
SG-20-3	WD20	I-125
SG-21-1	WH21	I-126
SG-21-2	WG21	I-126
SG-21-3	WE21	I-126
SG-21-4	WD21	I-126
14X-7-1	WD14	I-127
14X-7-2	WD15	I-127

CB WELL LEVELS DATA



CB WELL LEVELS DATA



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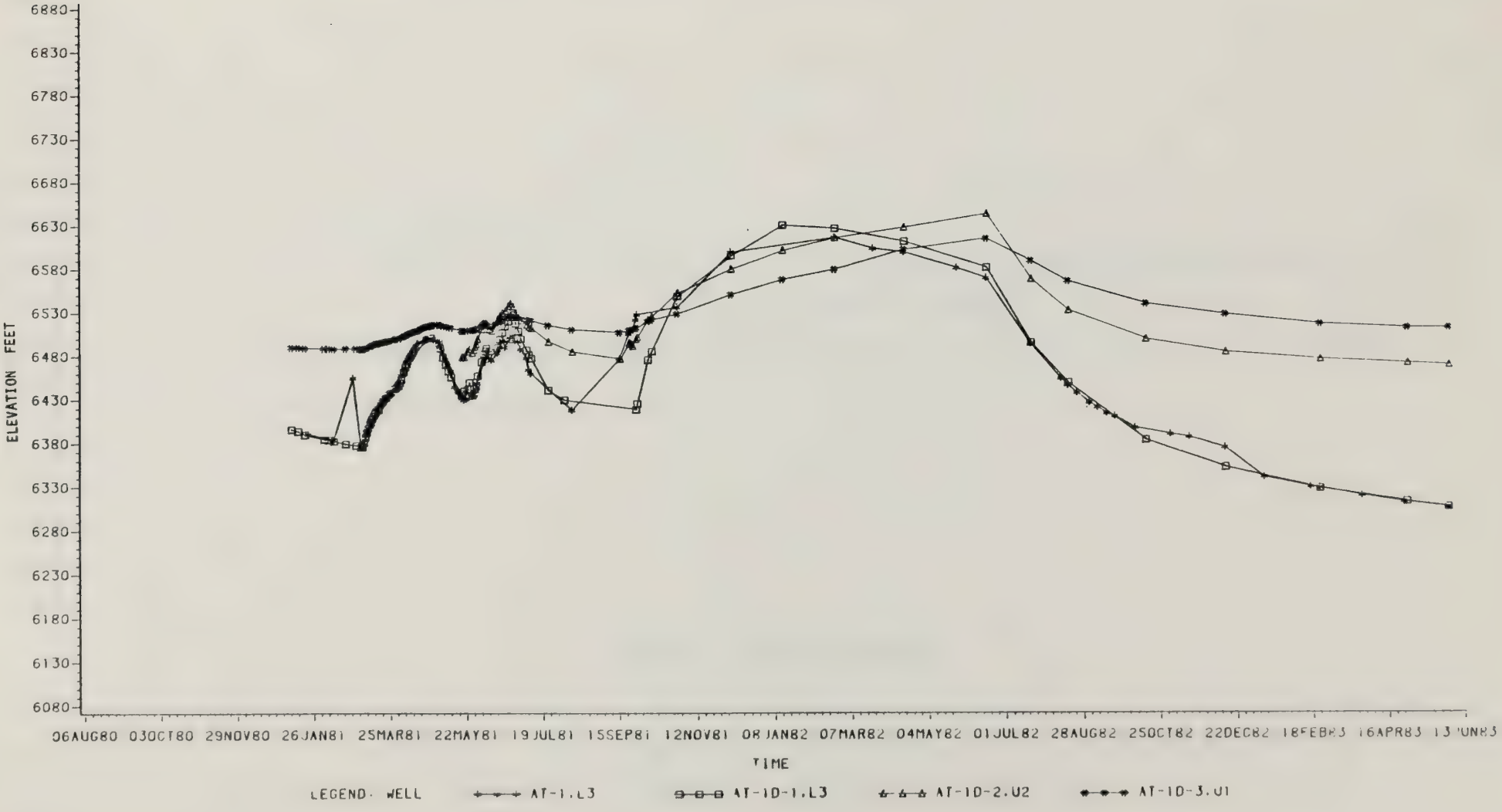

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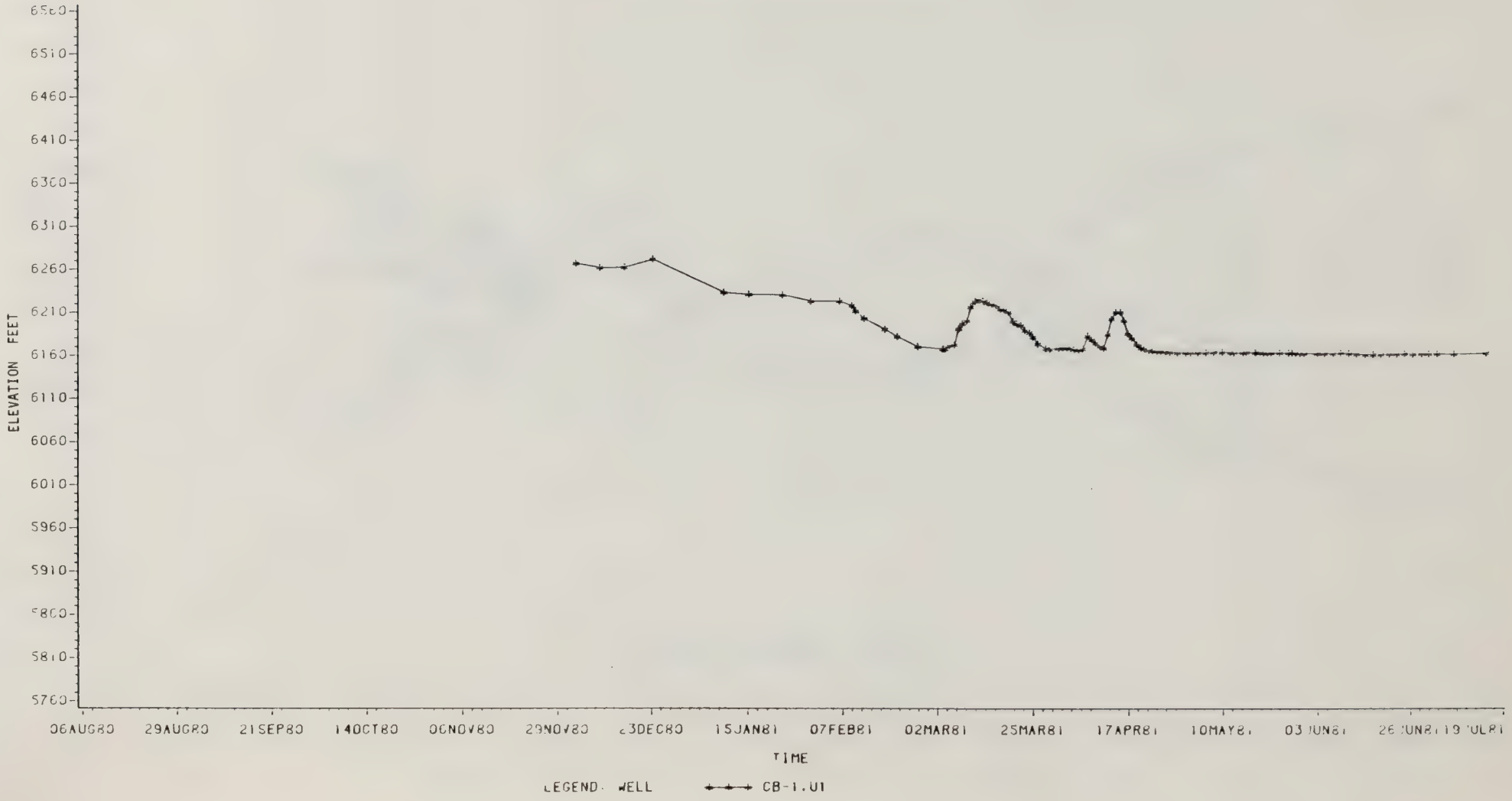
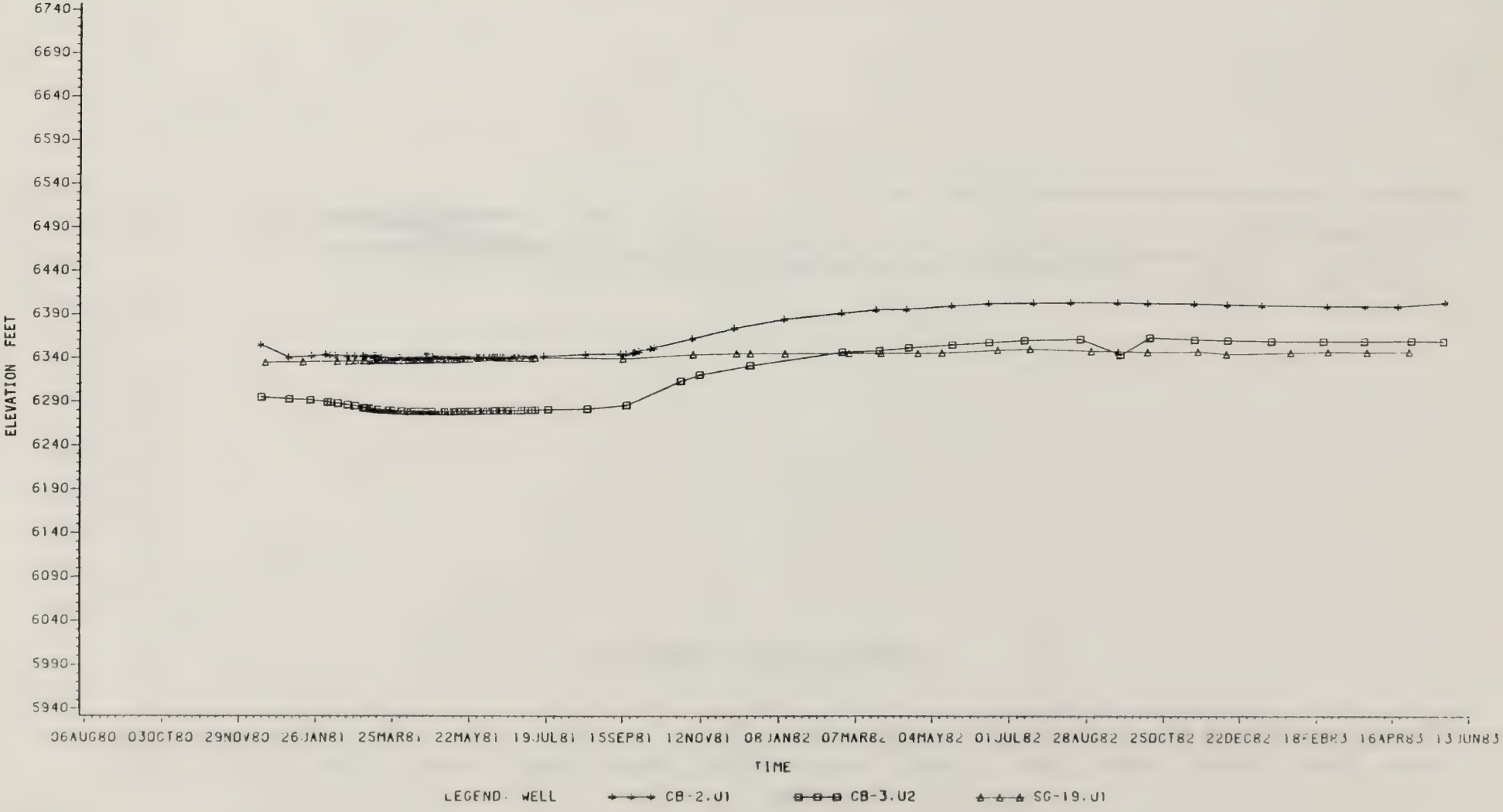


CB WELL LEVELS DATA



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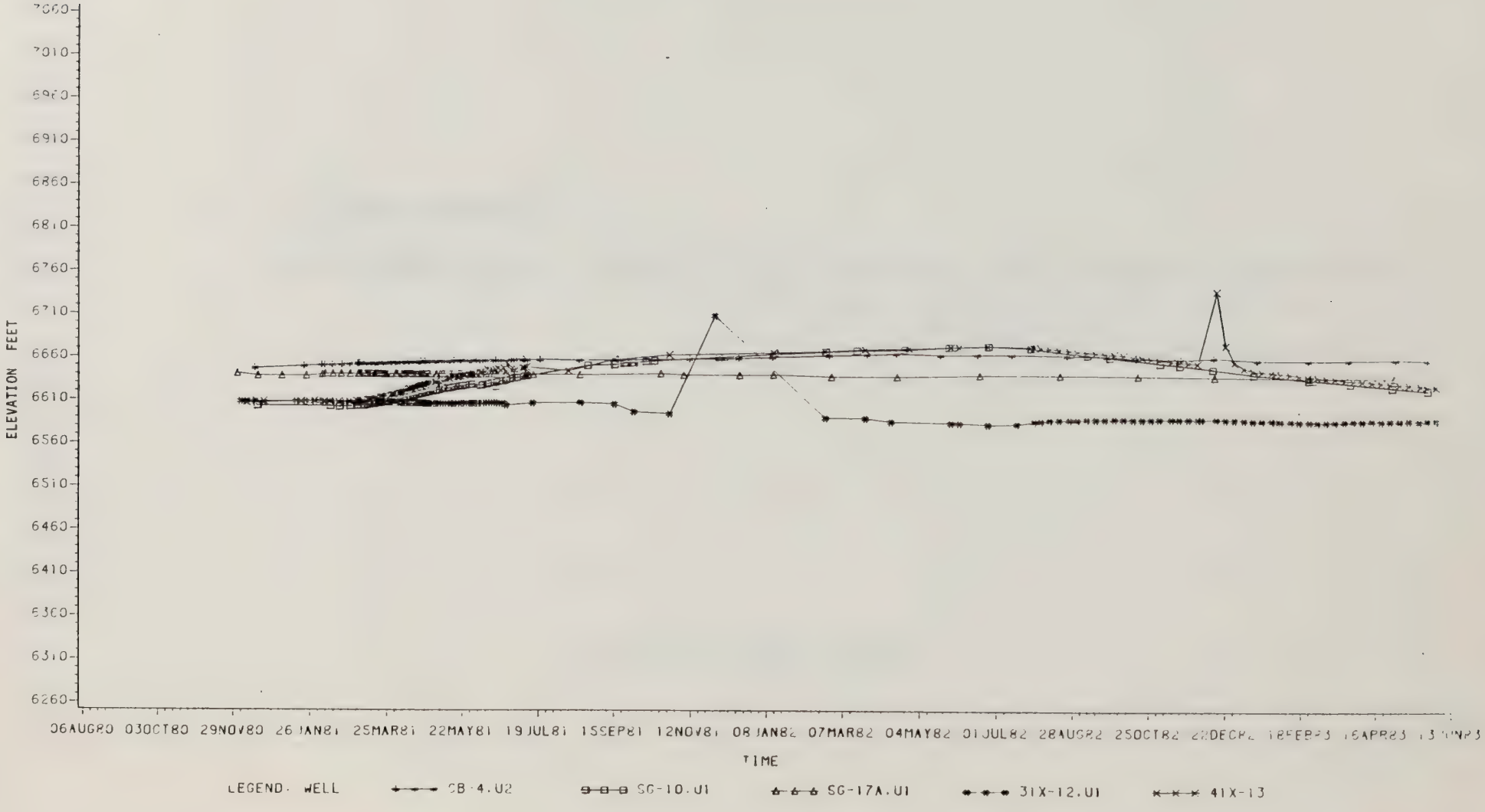
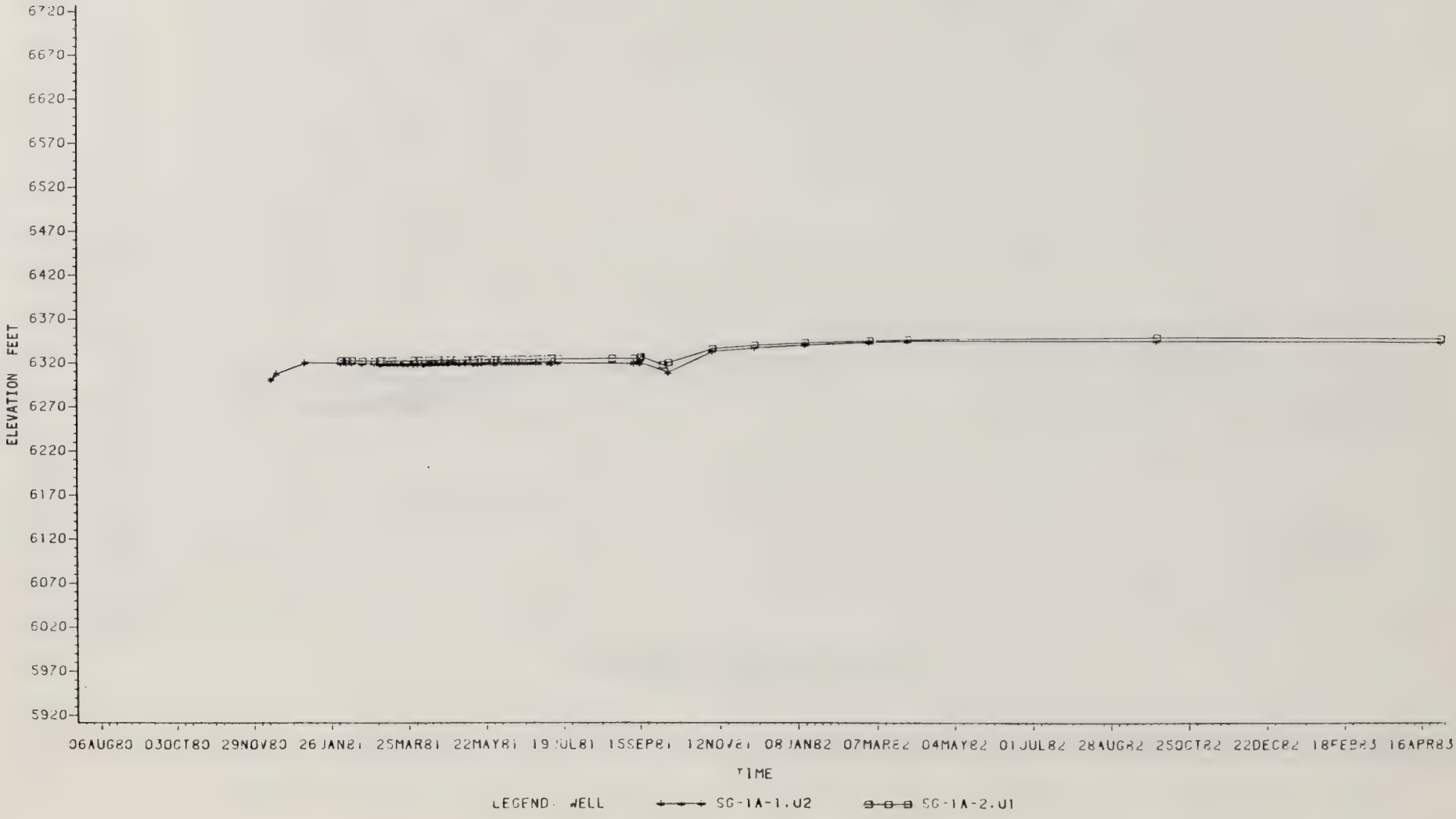


CB WELL LEVELS DATA

CB WELL LEVELS DATA



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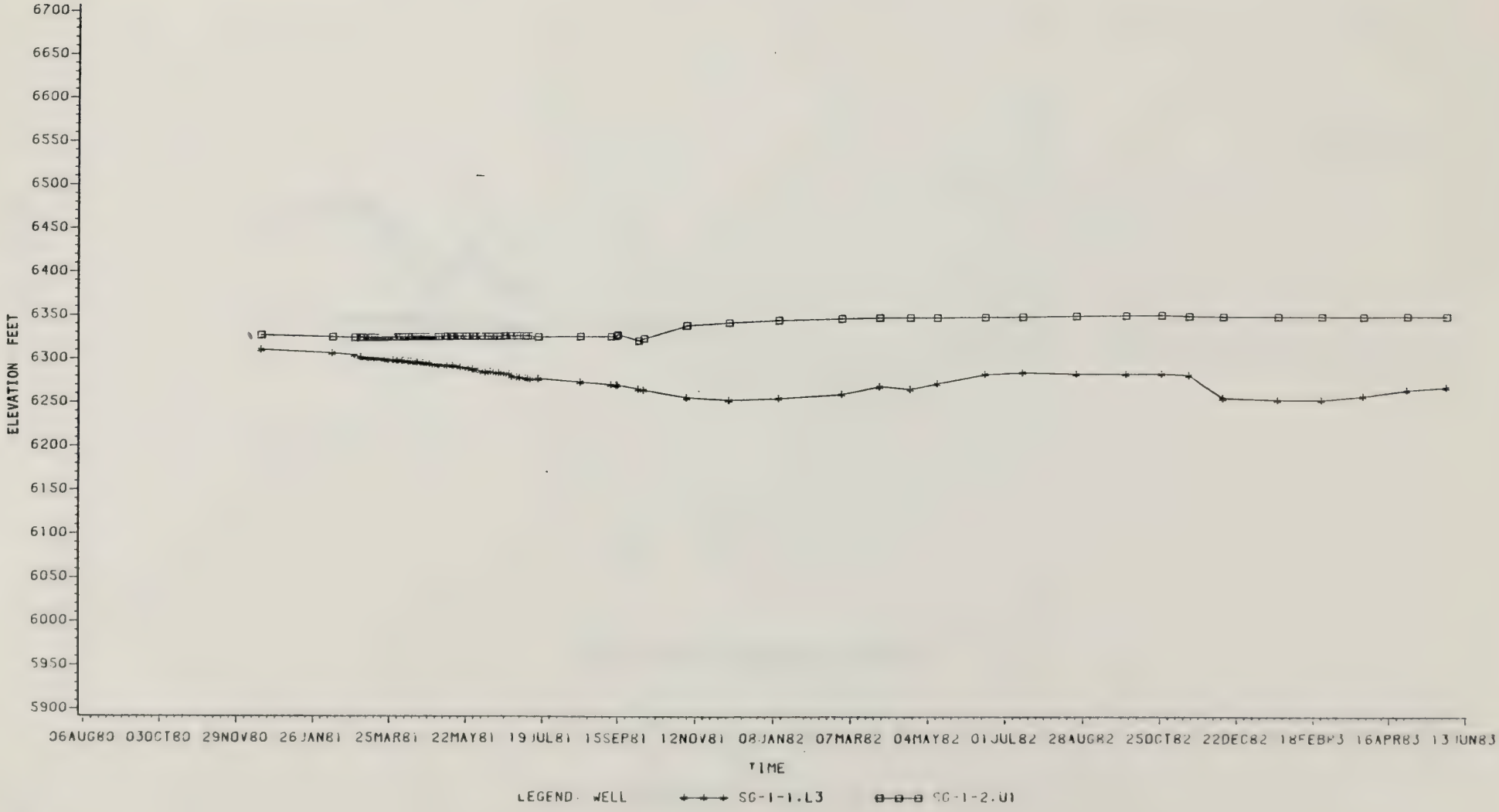

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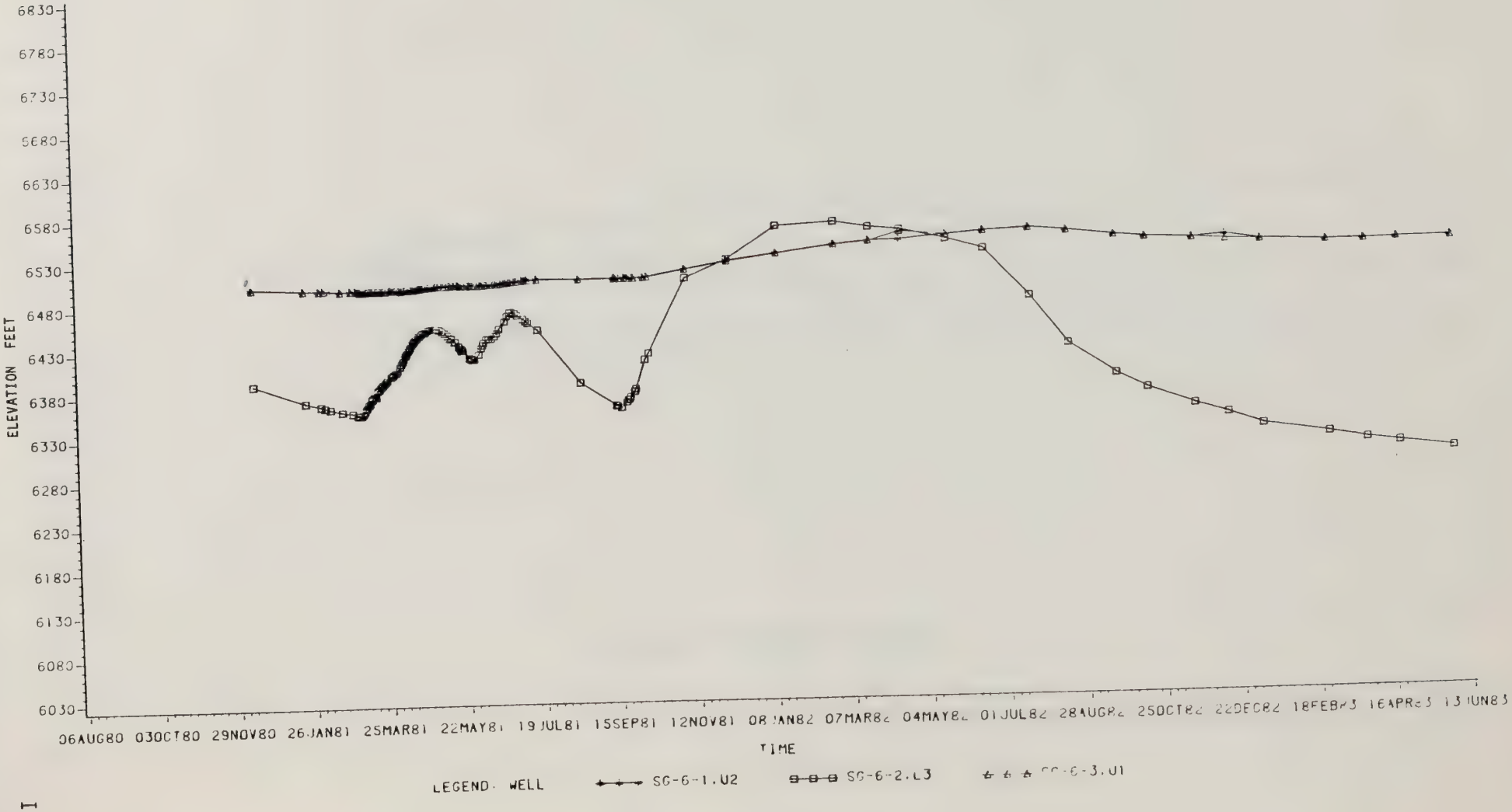

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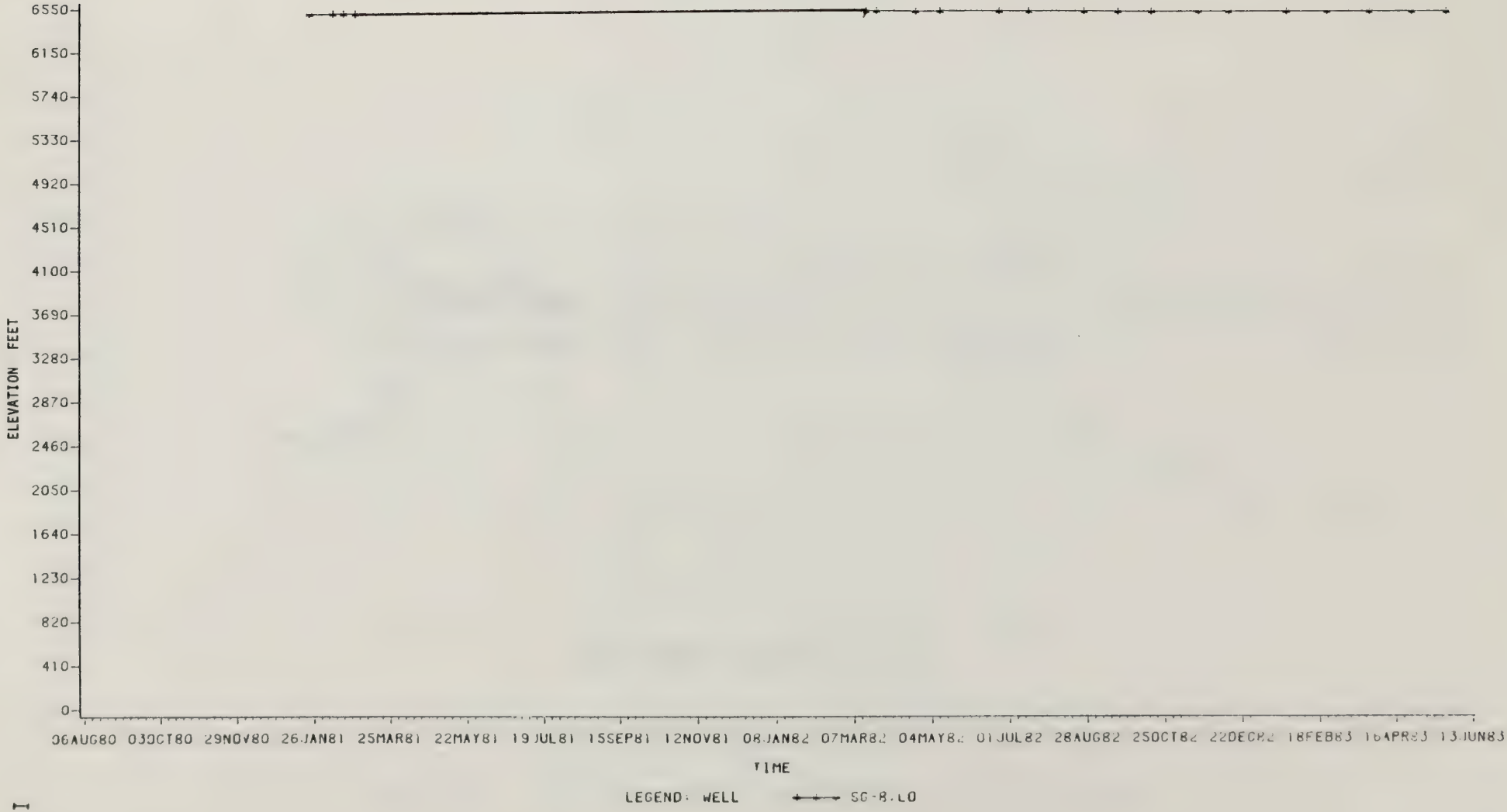

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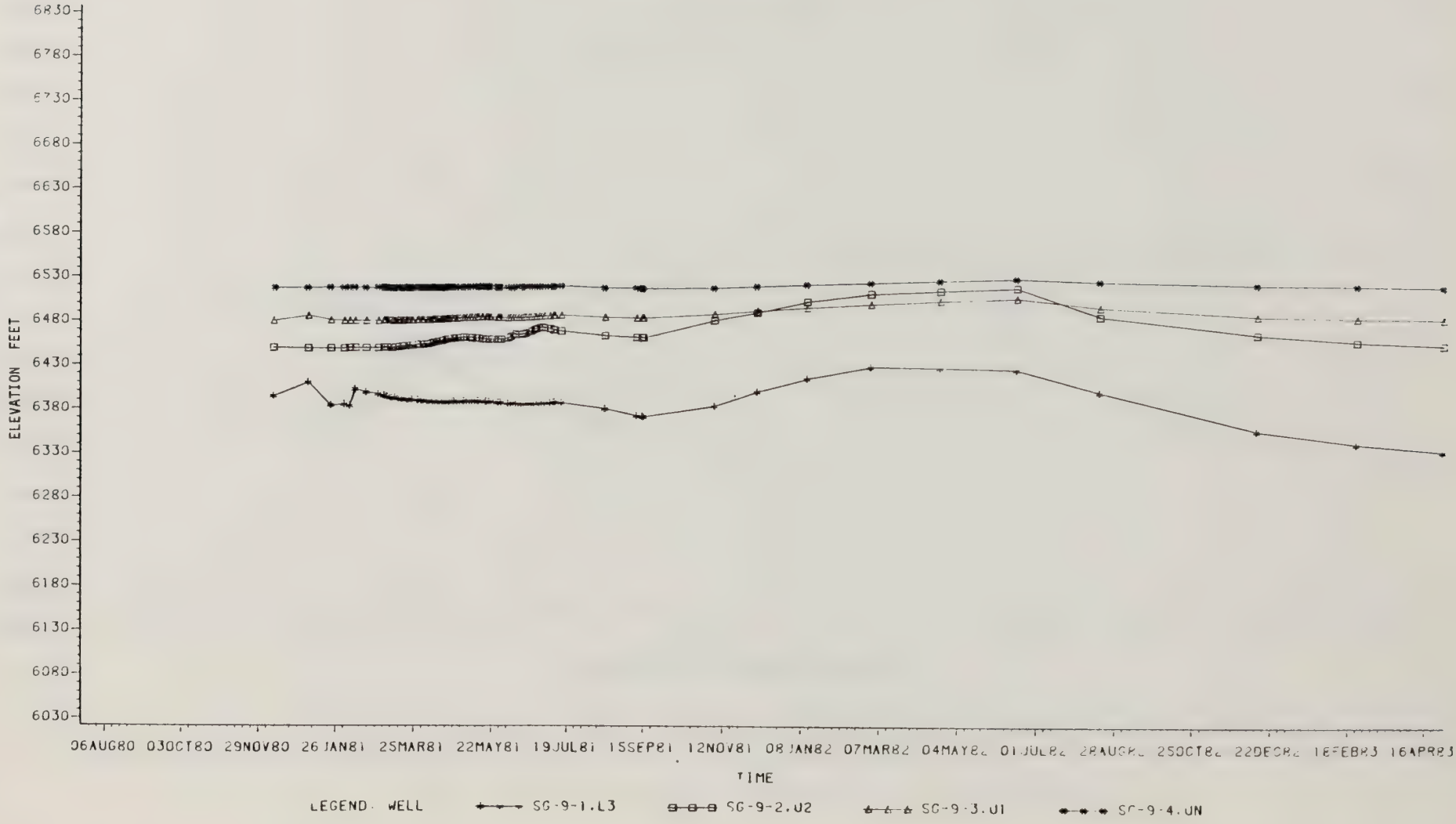
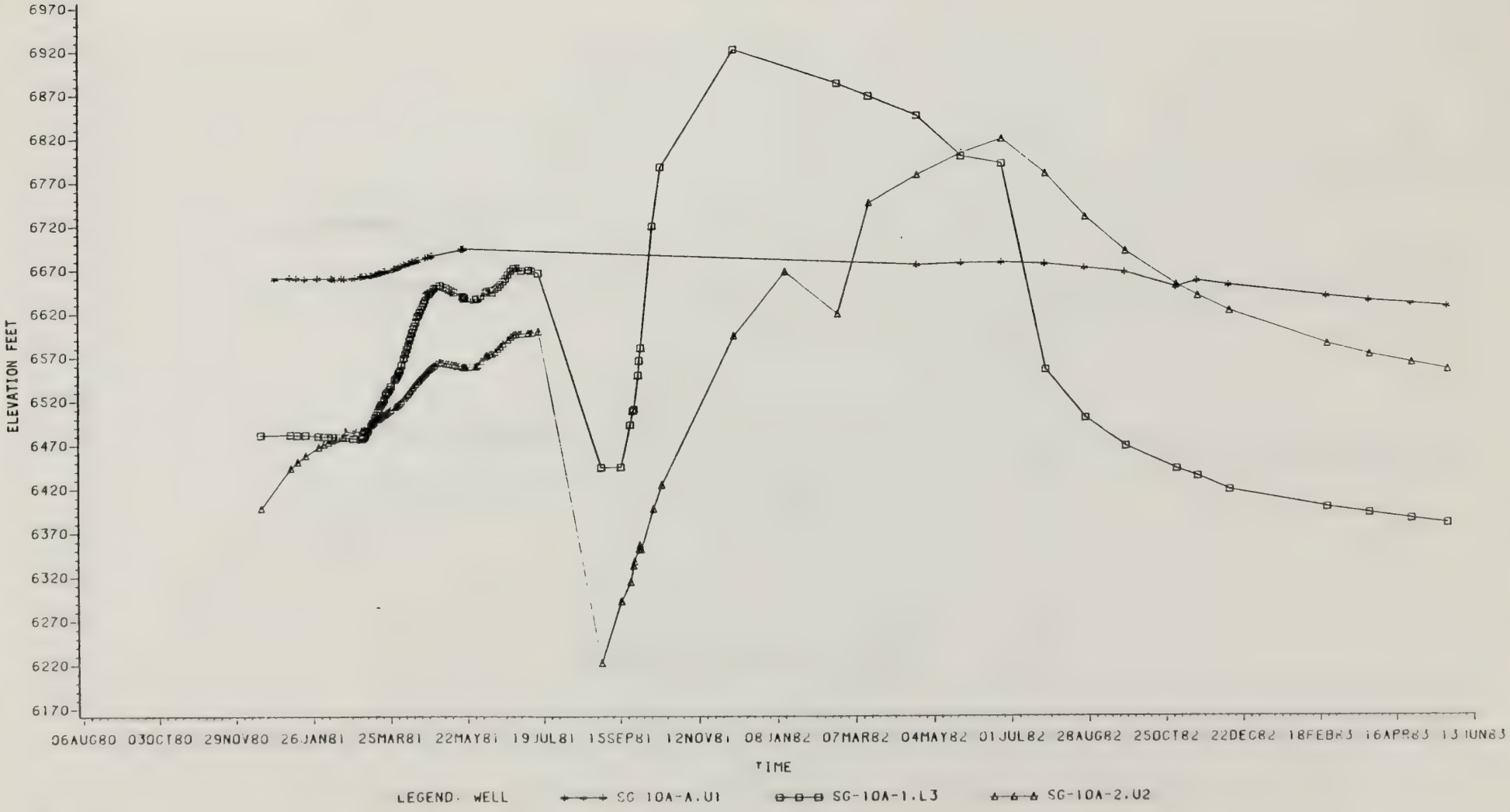


C21-I

CB WELL LEVELS DATA



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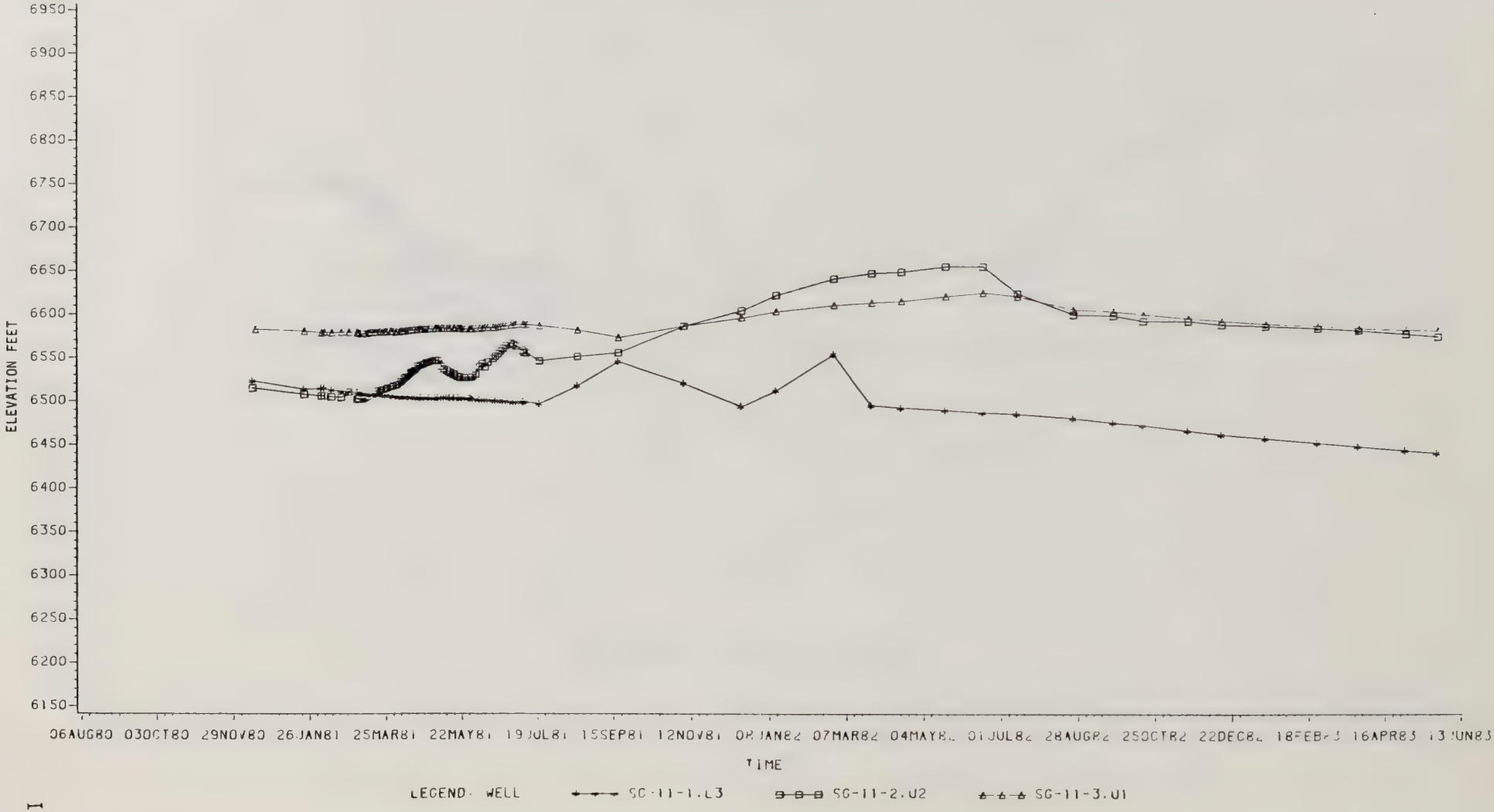

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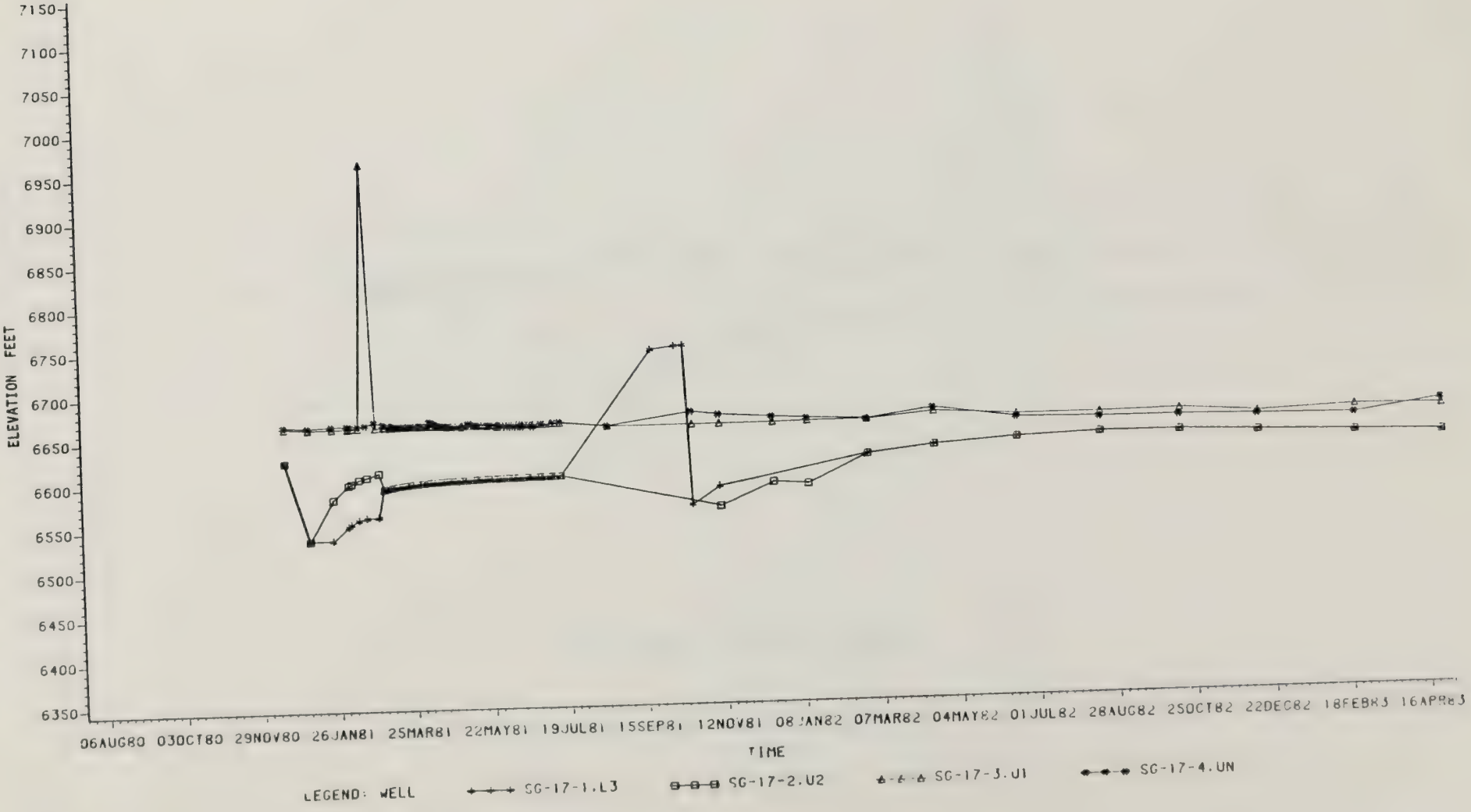
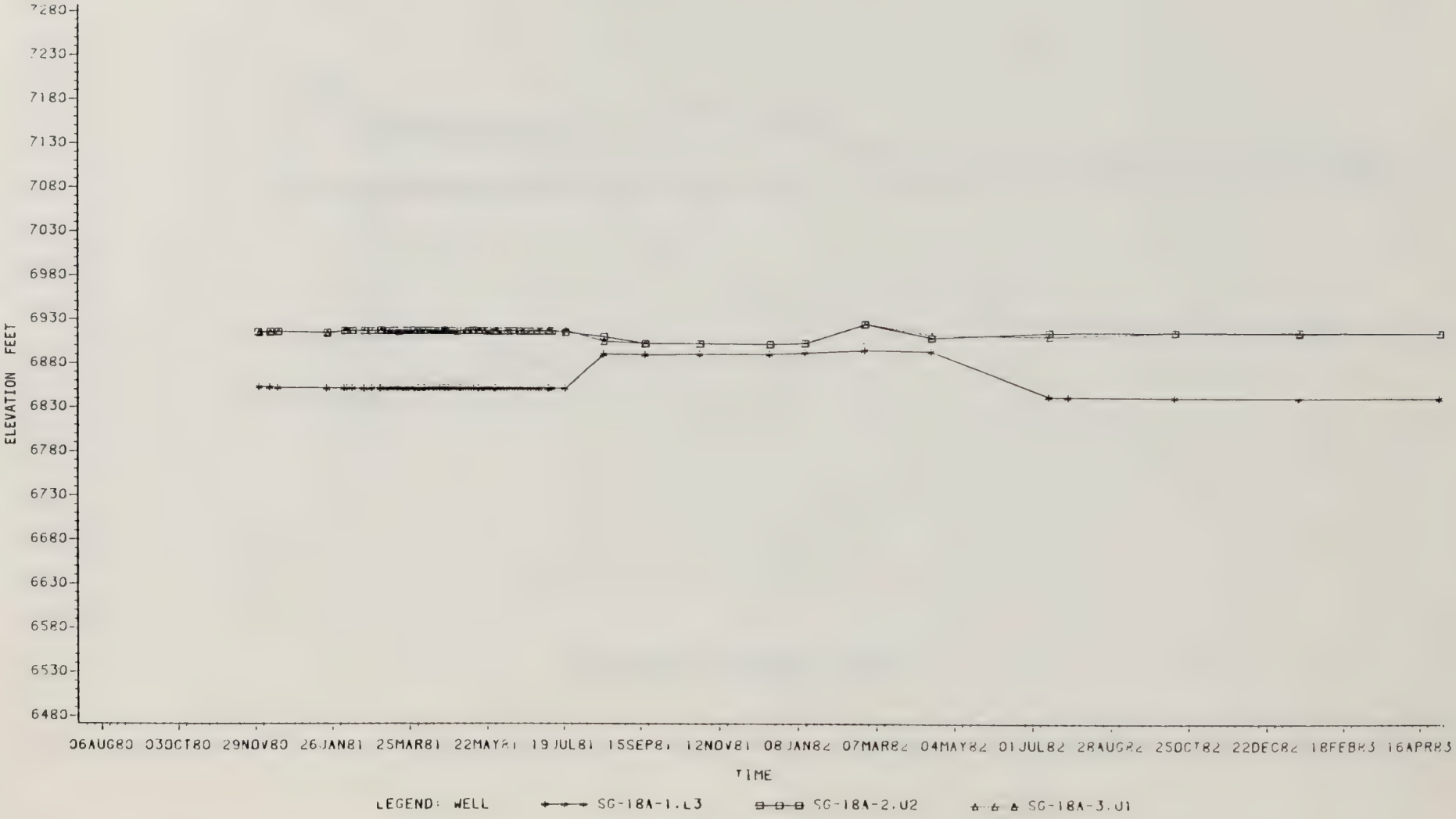
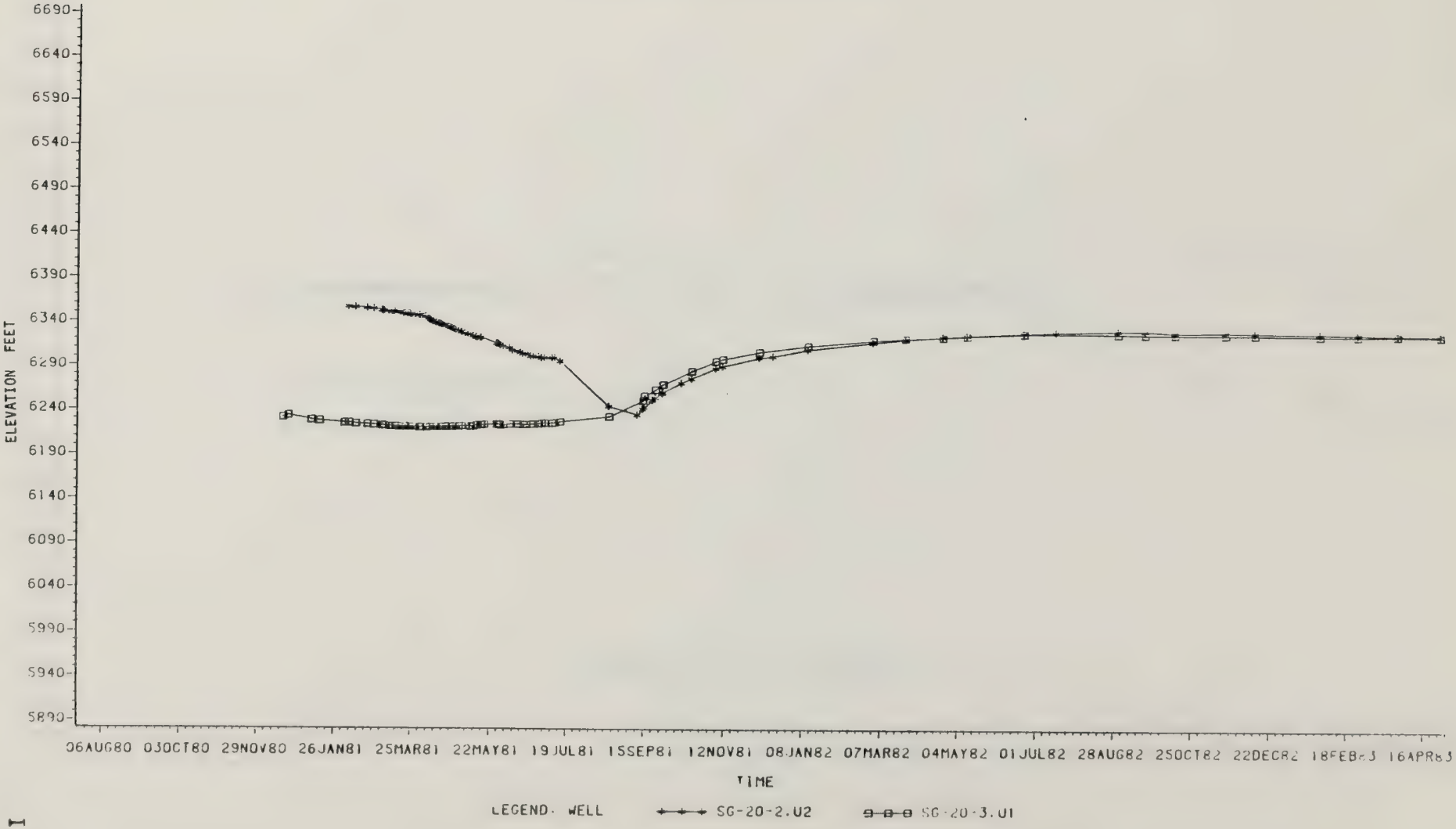


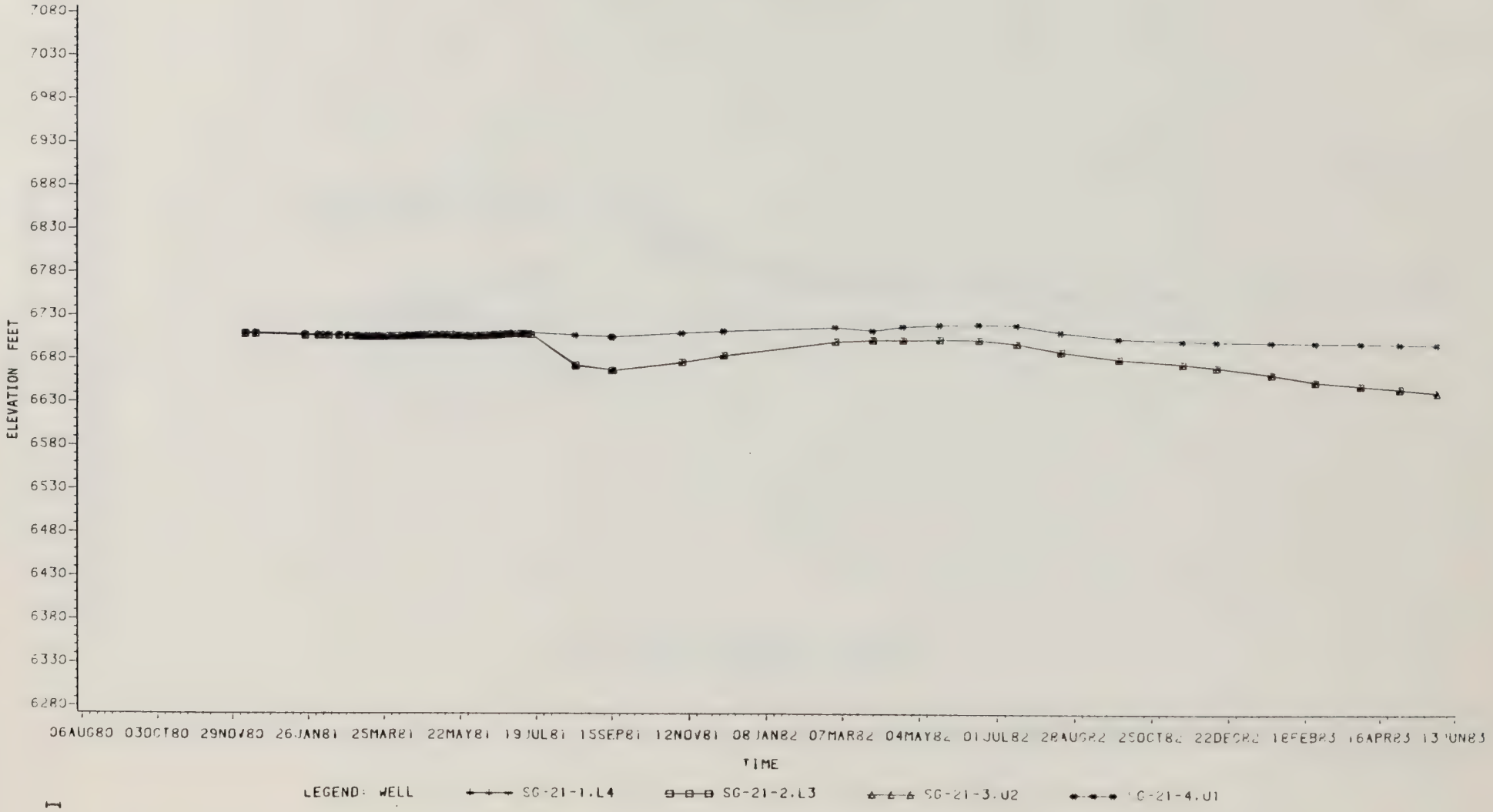
CB WELL LEVELS DATA



CB WELL LEVELS DATA



CB WELL LEVELS DATA



CB WELL LEVELS DATA

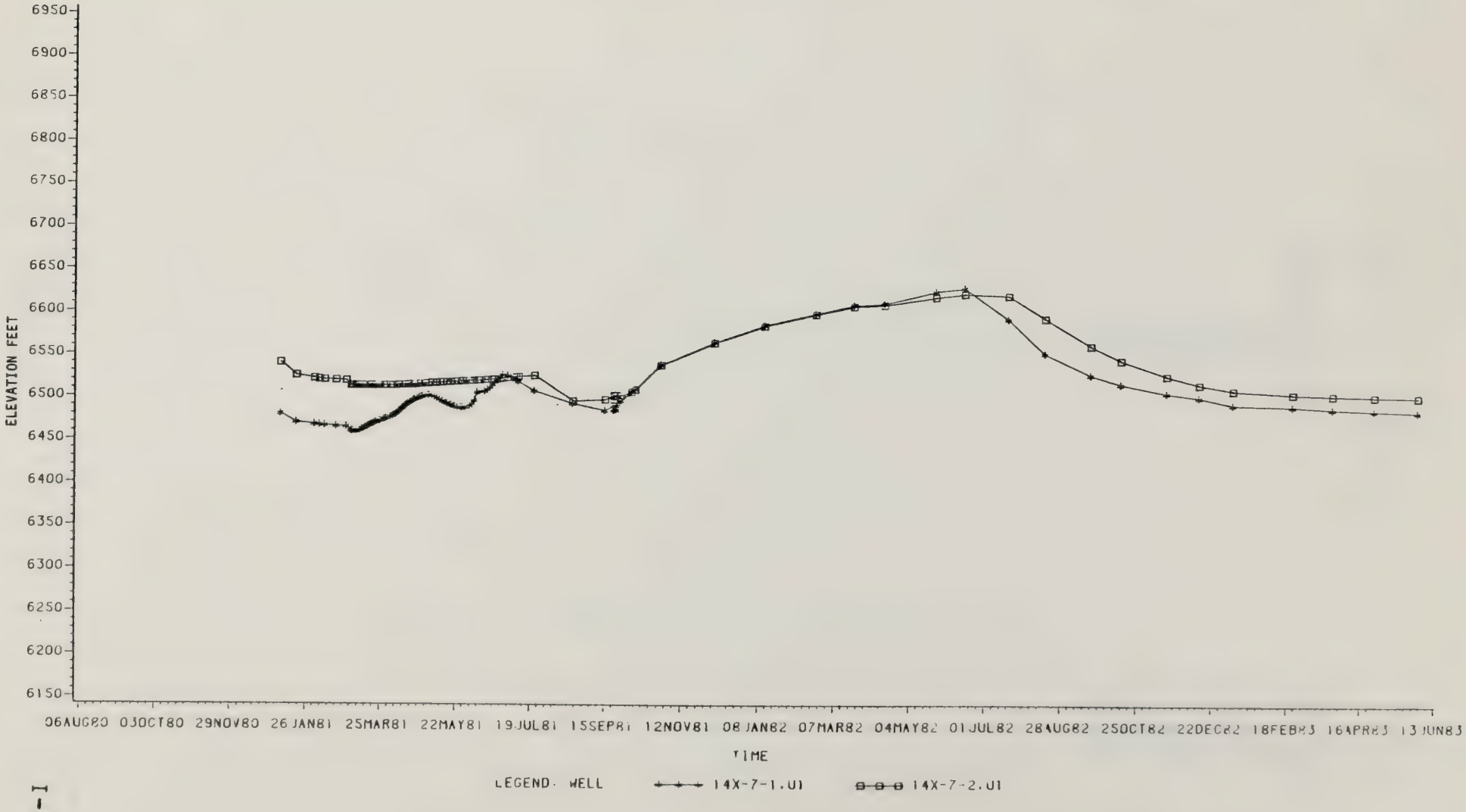


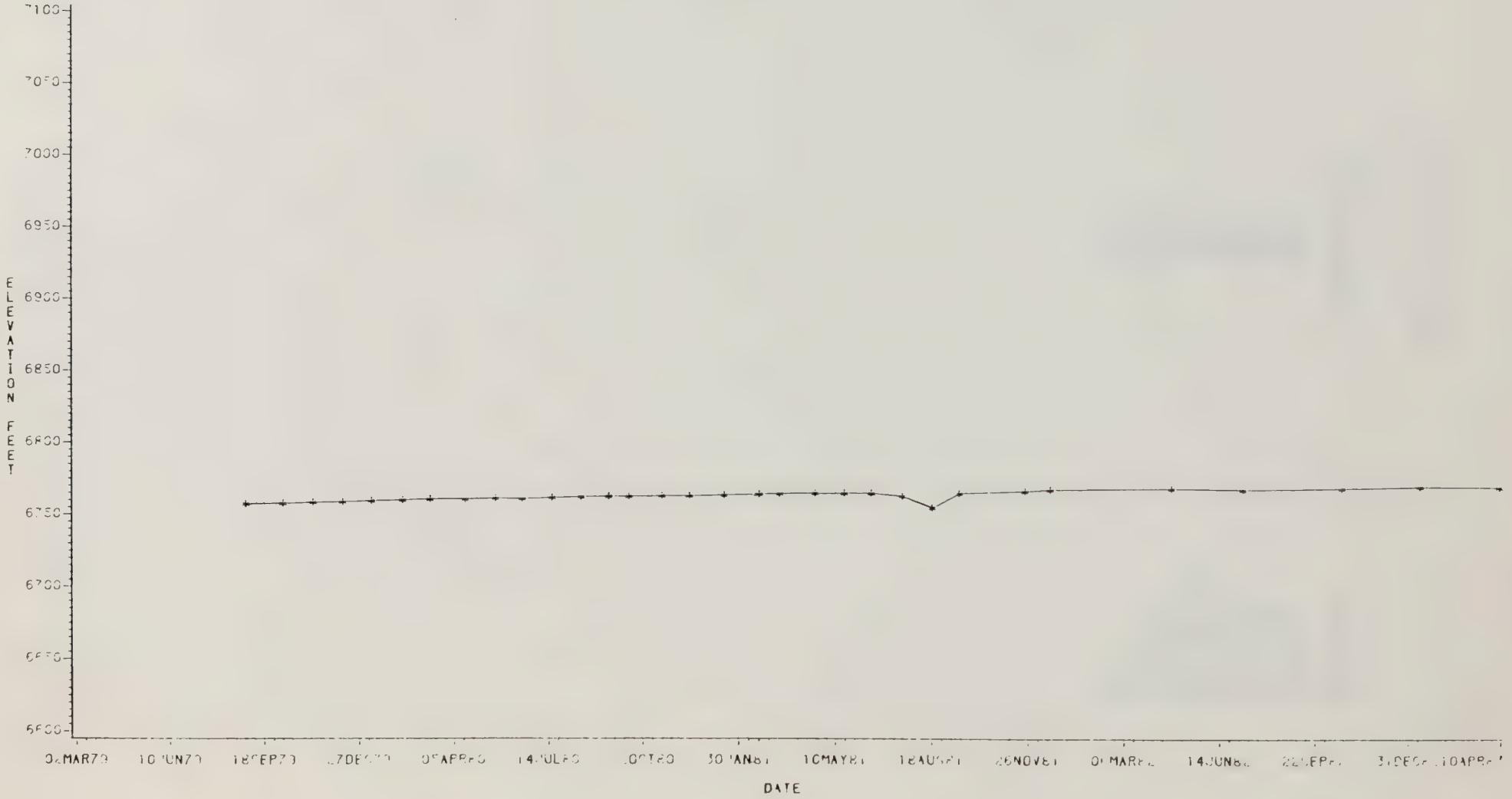
TABLE 1.2.1.4-15

Well No.	Computer Code	Page No.
TH75-5A	WX64	I-130
TH75-13A	WX65	I-131
TH75-18A	WX67	I-132
TH75-9A	WX69	I-133
CER RB-D-02	WX71	I-134
TH75-15A	WX72	I-135
UNION 8-1	WX73	I-136
TH-5	WX75	I-137

WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

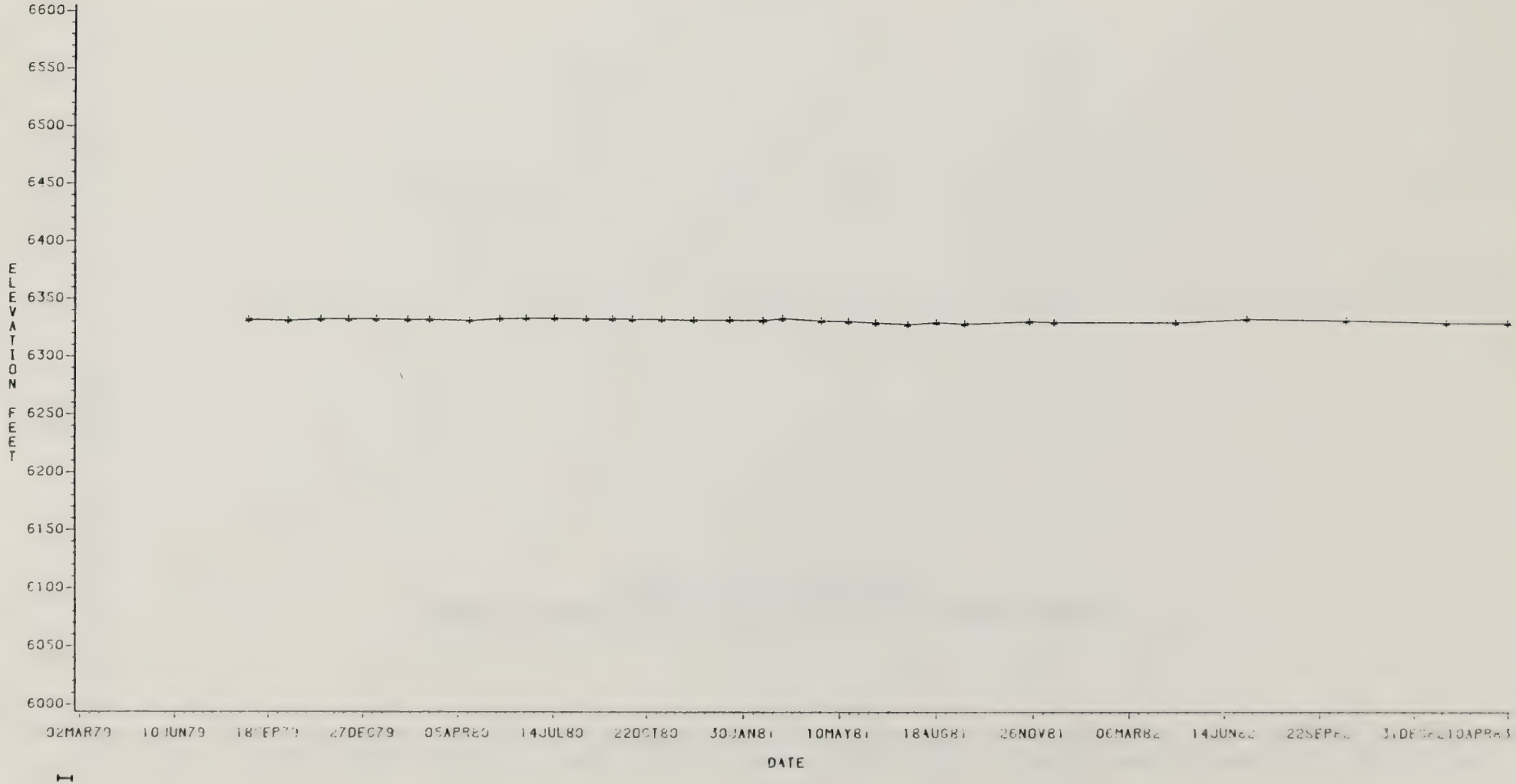
LOC=WX04



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

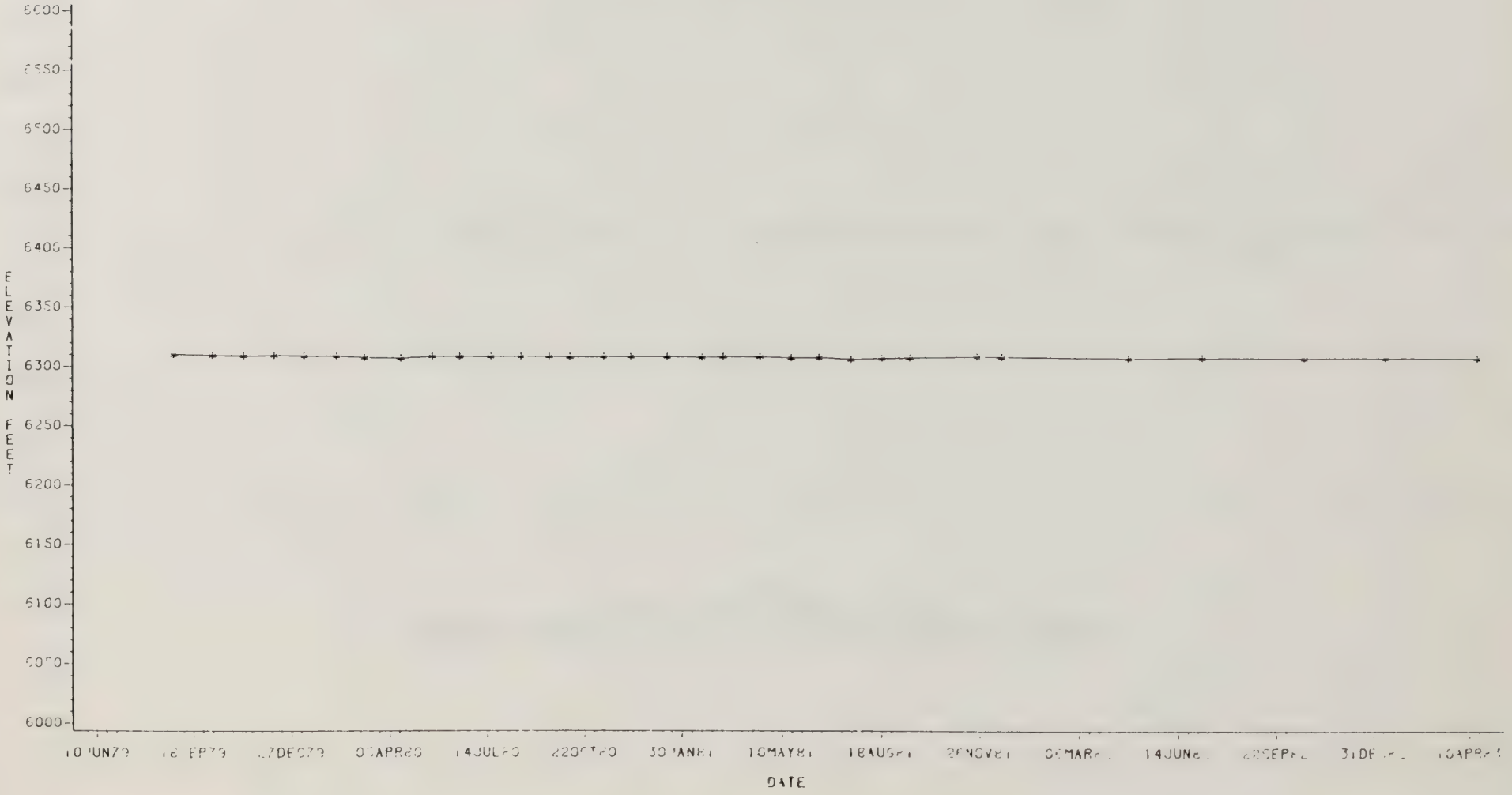
LOC=WX6S



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

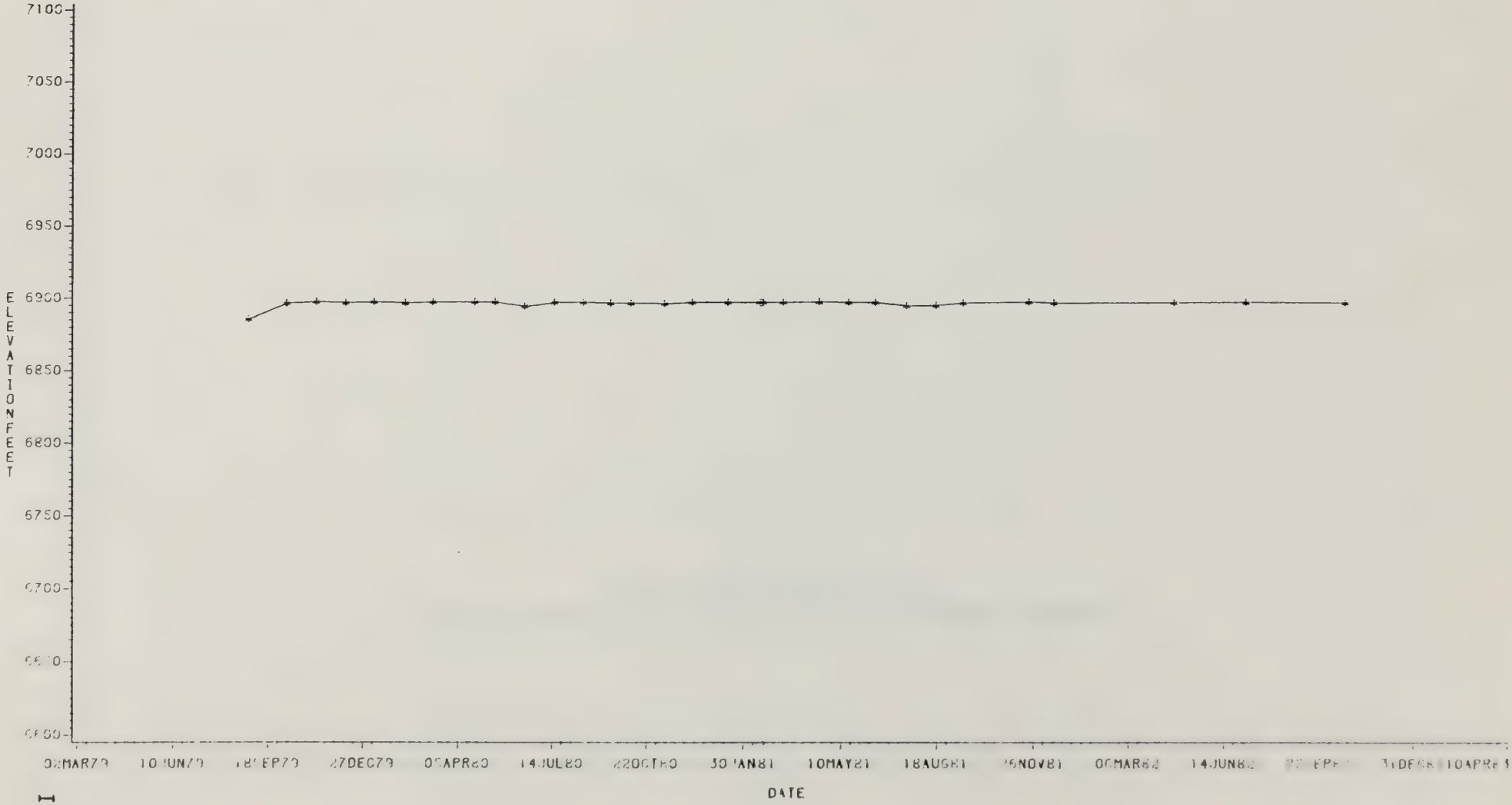
REQUIRED BY WATER AUGMENTATION PLAN

LOC=WX67



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

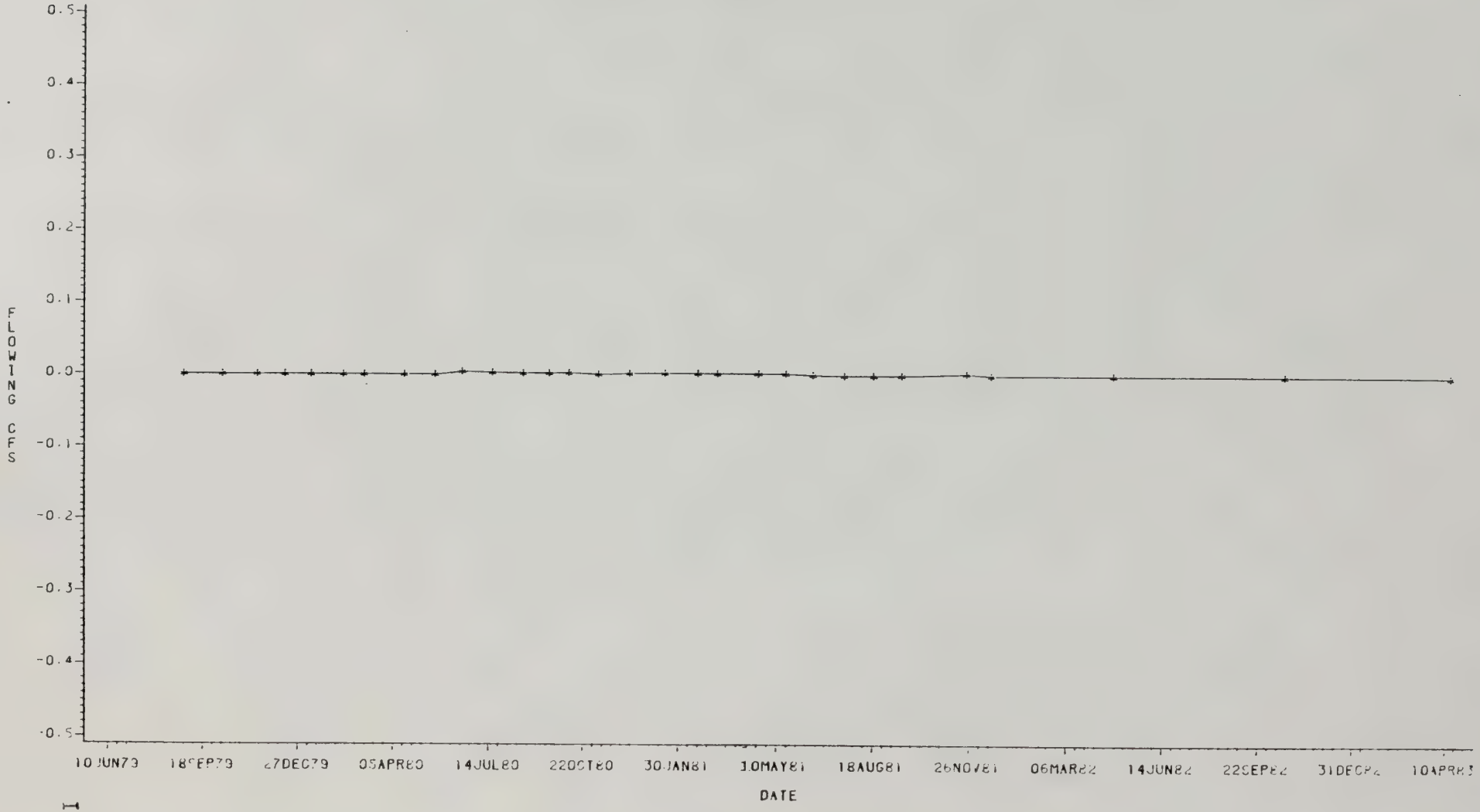
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WX69



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

LOC=WX71



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

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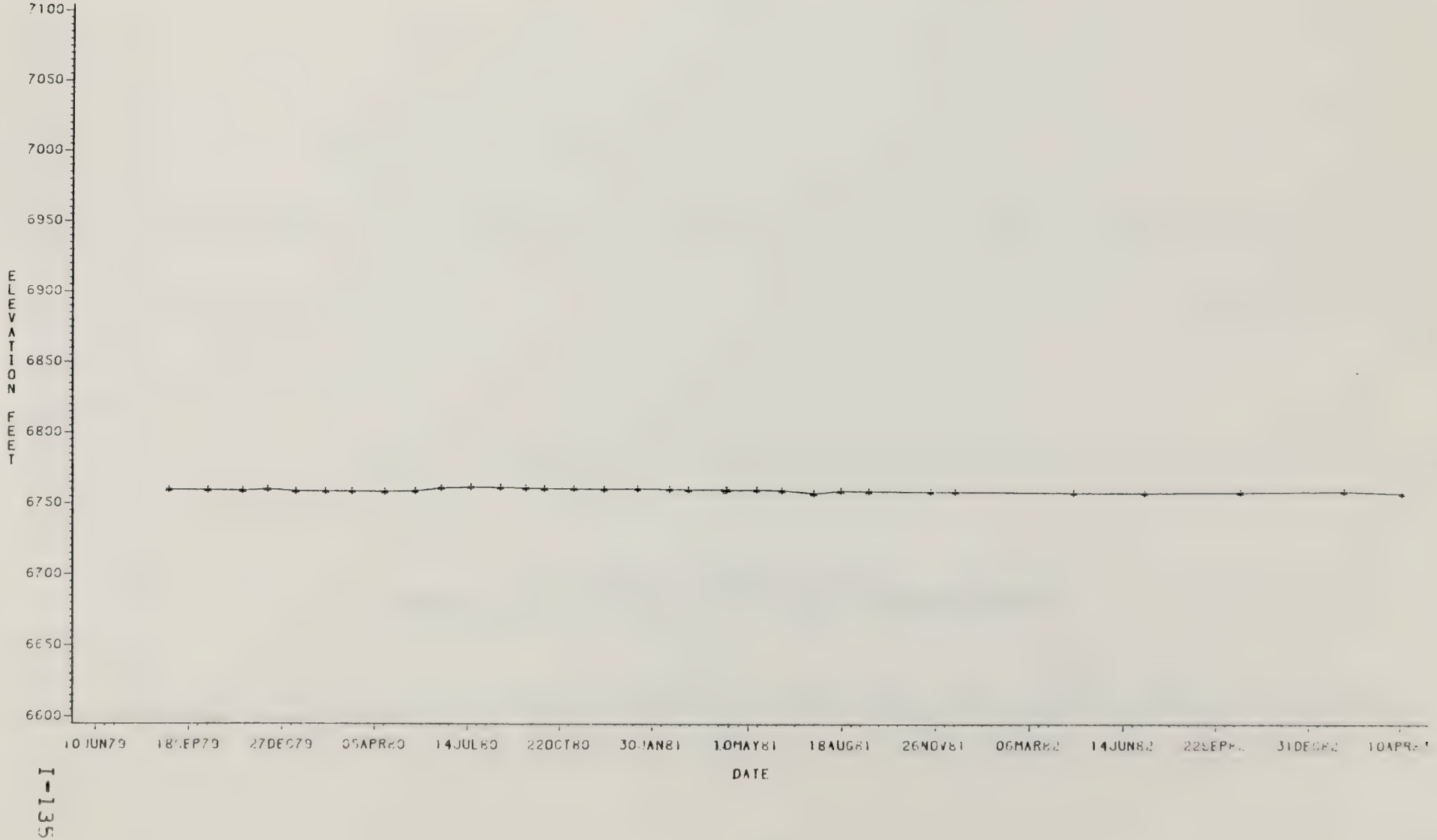
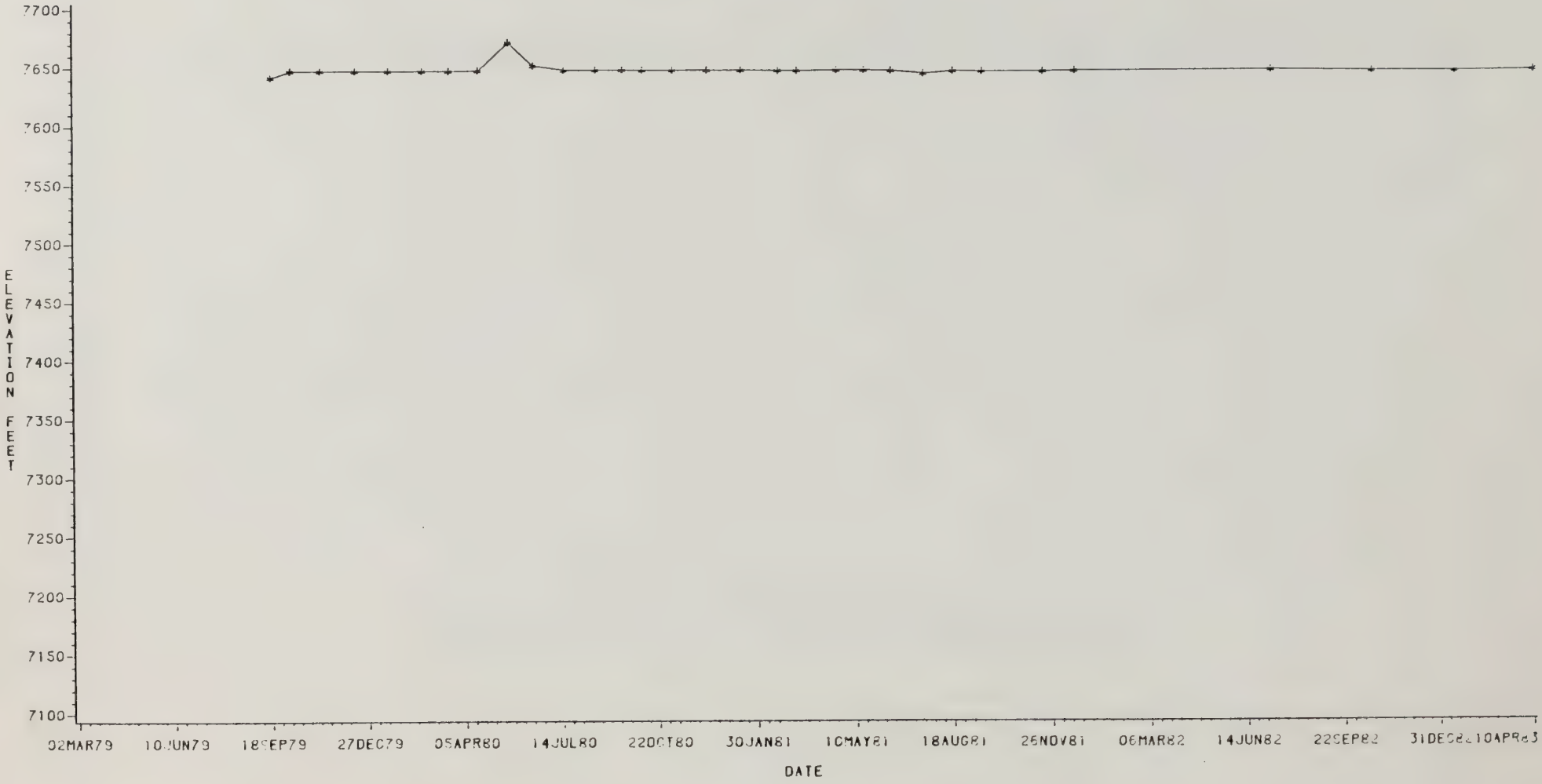


WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN
LOC=WX73



WATER LEVEL PLOTS IN UPPER AQUIFER WELLS

REQUIRED BY: WATER AUGMENTATION PLAN
LOC=WX7S

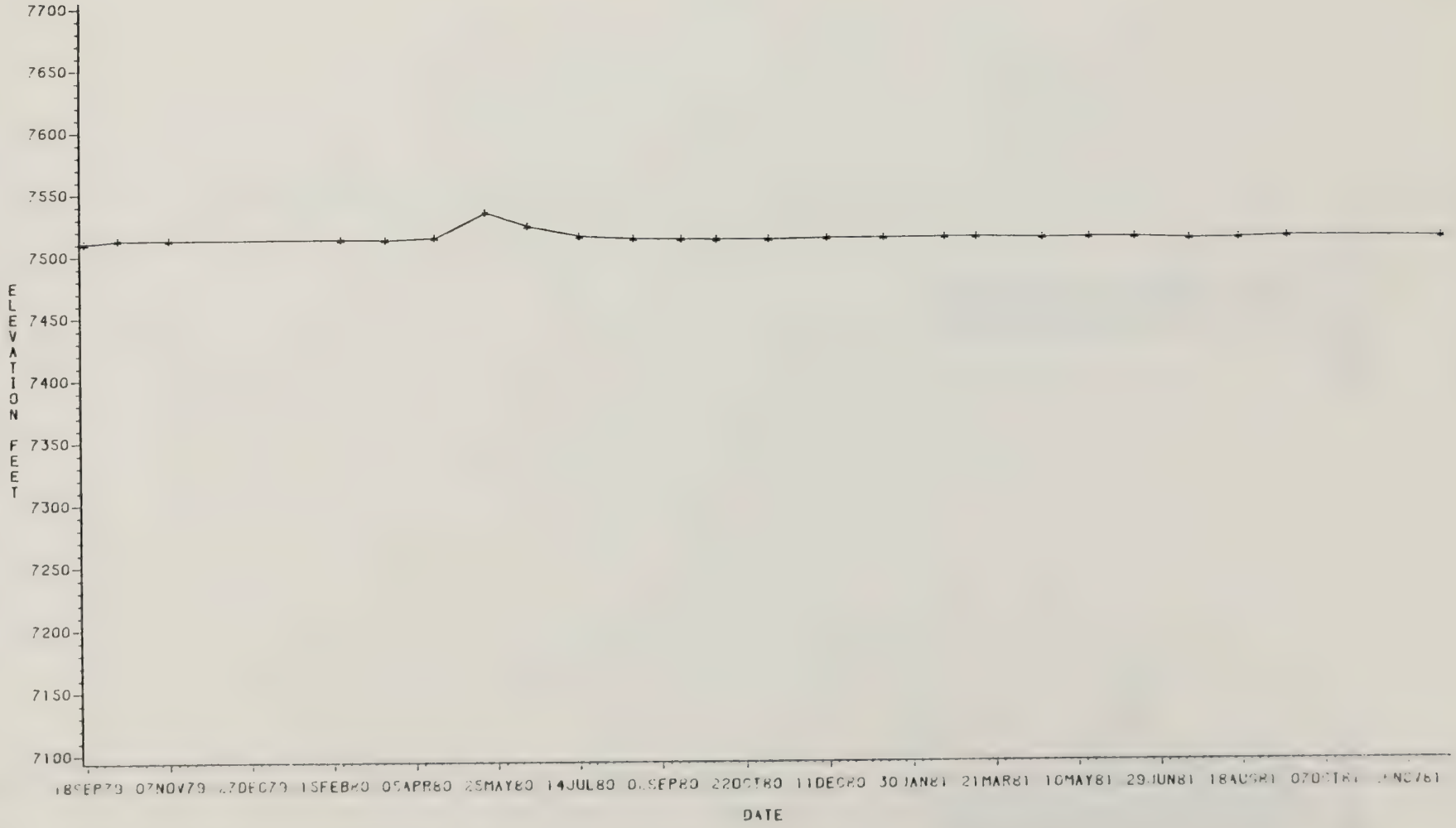


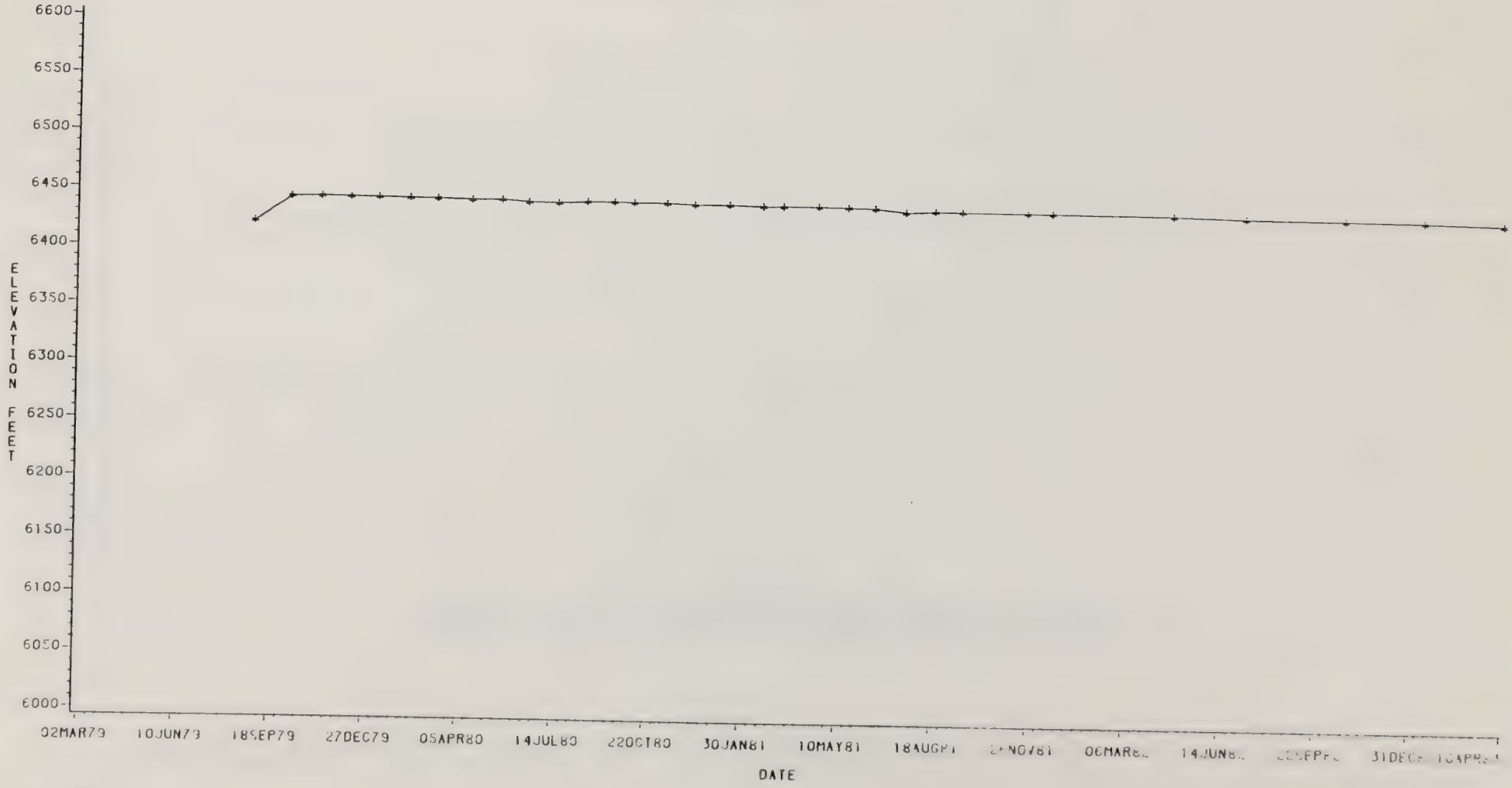
TABLE 1.2.1.4-16

Well No.	Computer Code	Page No.
TH75-5B	WY64	I-139
TH75-13B	WY65	I-140
EQUITY-1	WY66	I-141
TH75-18B	WY67	I-142
TH75-10B	WY68	I-143
TH75-9B	WY69	I-144
EQUITY-SULFUR-1A	WY70	I-145
CER RB-D-03	WY71	I-146
TH75-15B	WY72	I-147
TG71-3	WY75	I-148
TG71-5	WY76	I-149
GETTY 9-40	WY77	I-150
TG71-4	WY78	I-151
EQUITY BS-13	WY79	I-152

WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

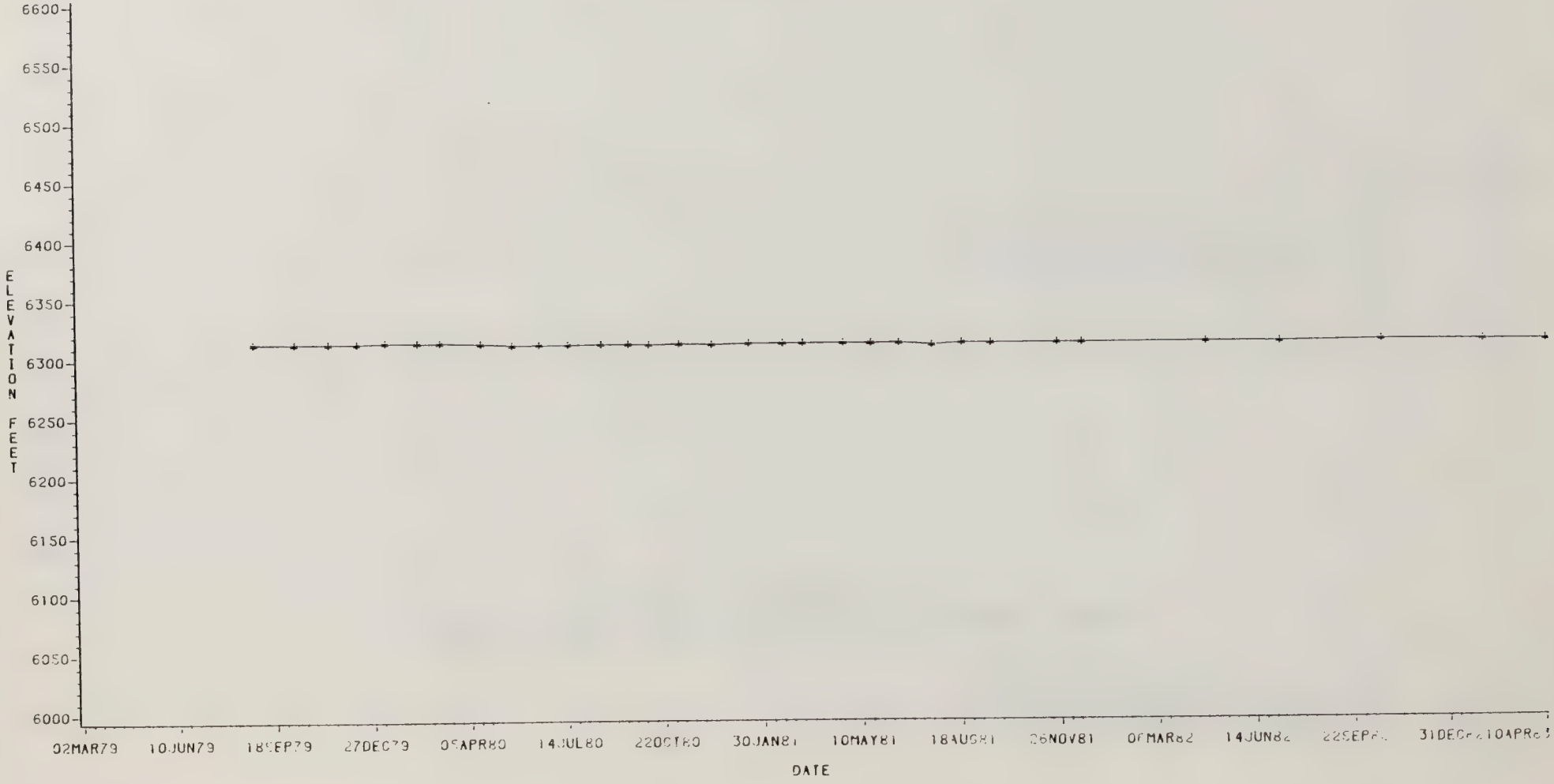
REQUIRED BY WATER AUGMENTATION PLAN

LOC=WY64



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

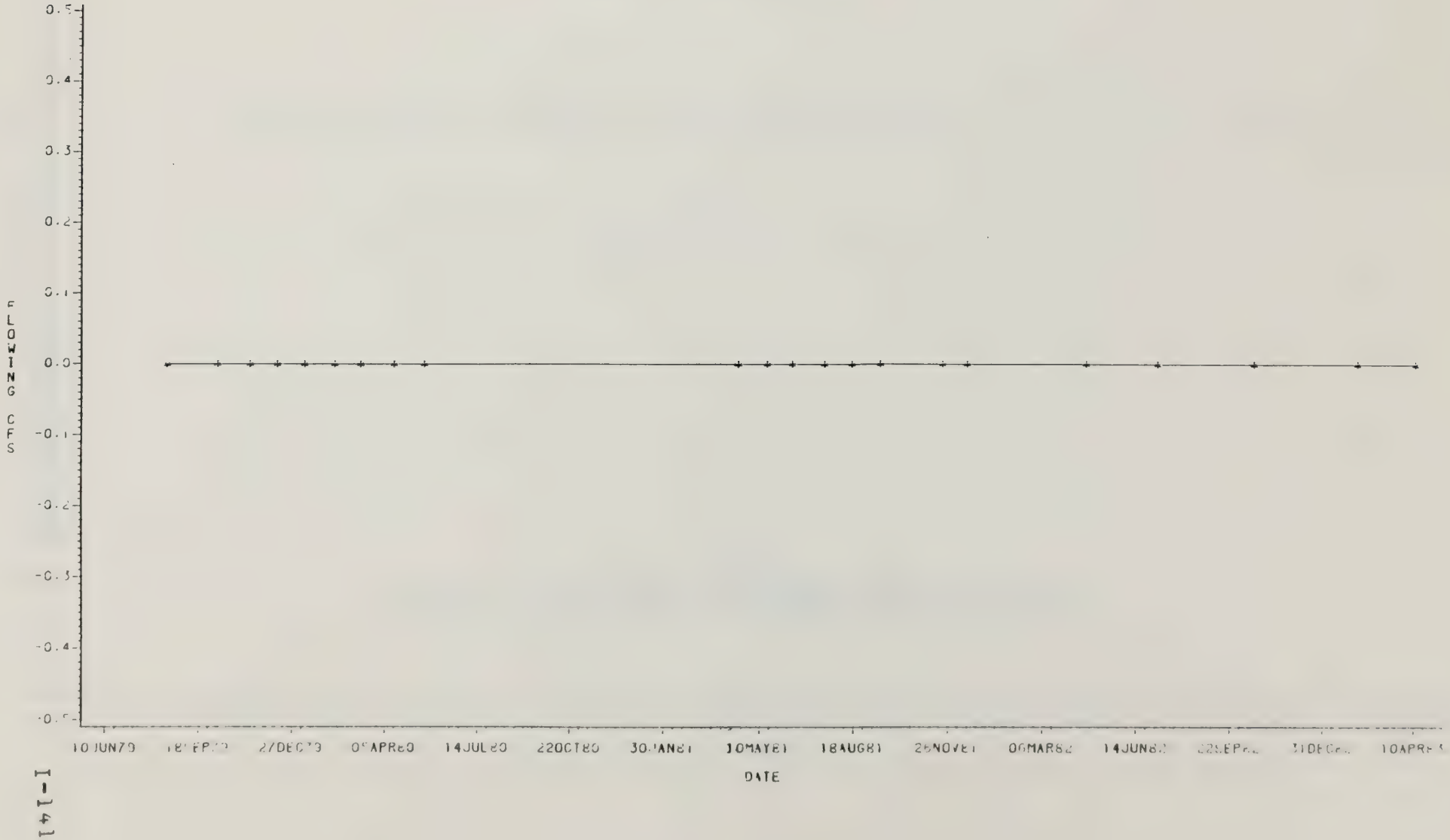
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY65



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

LOC=WY56



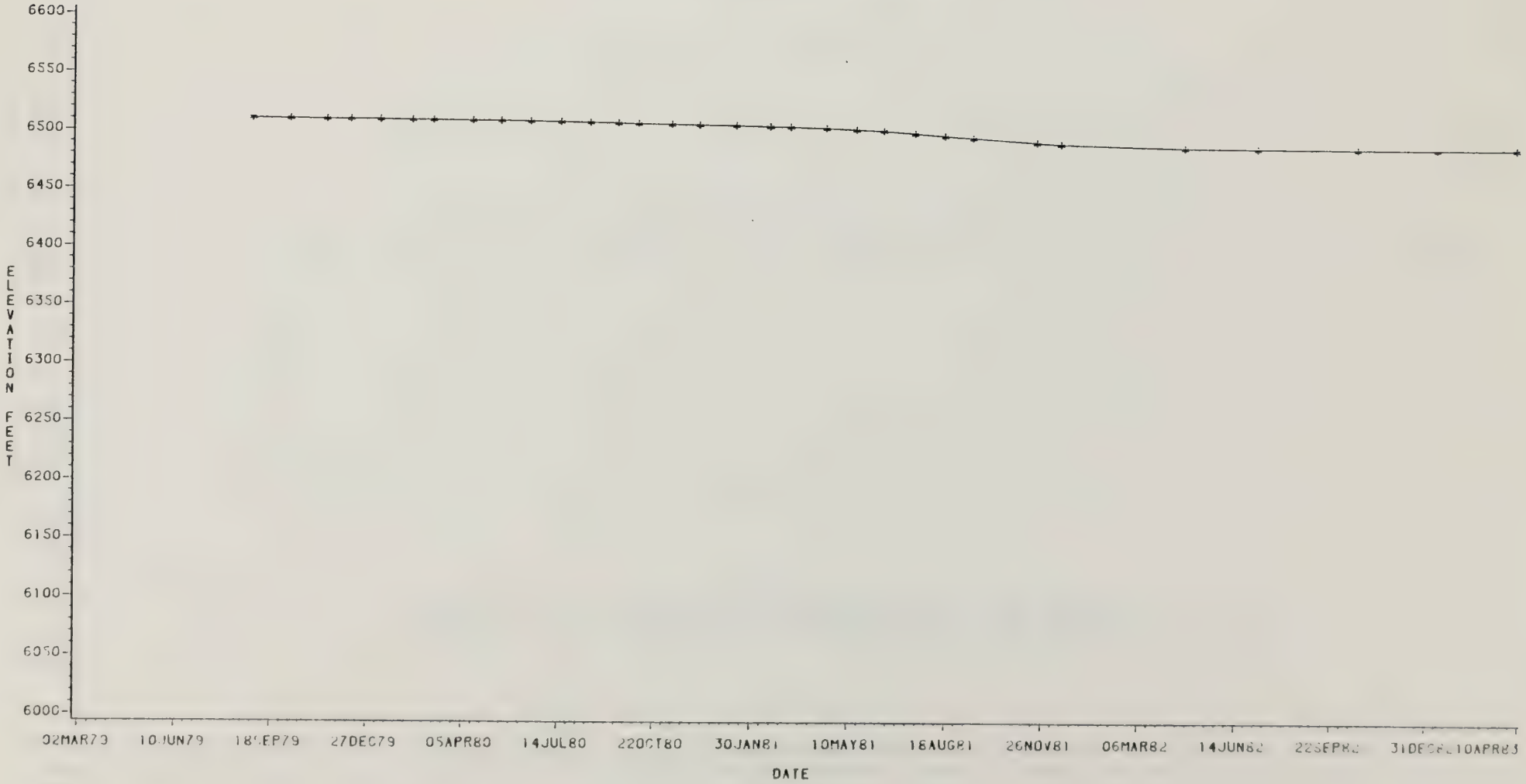
WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

LOC=WY67

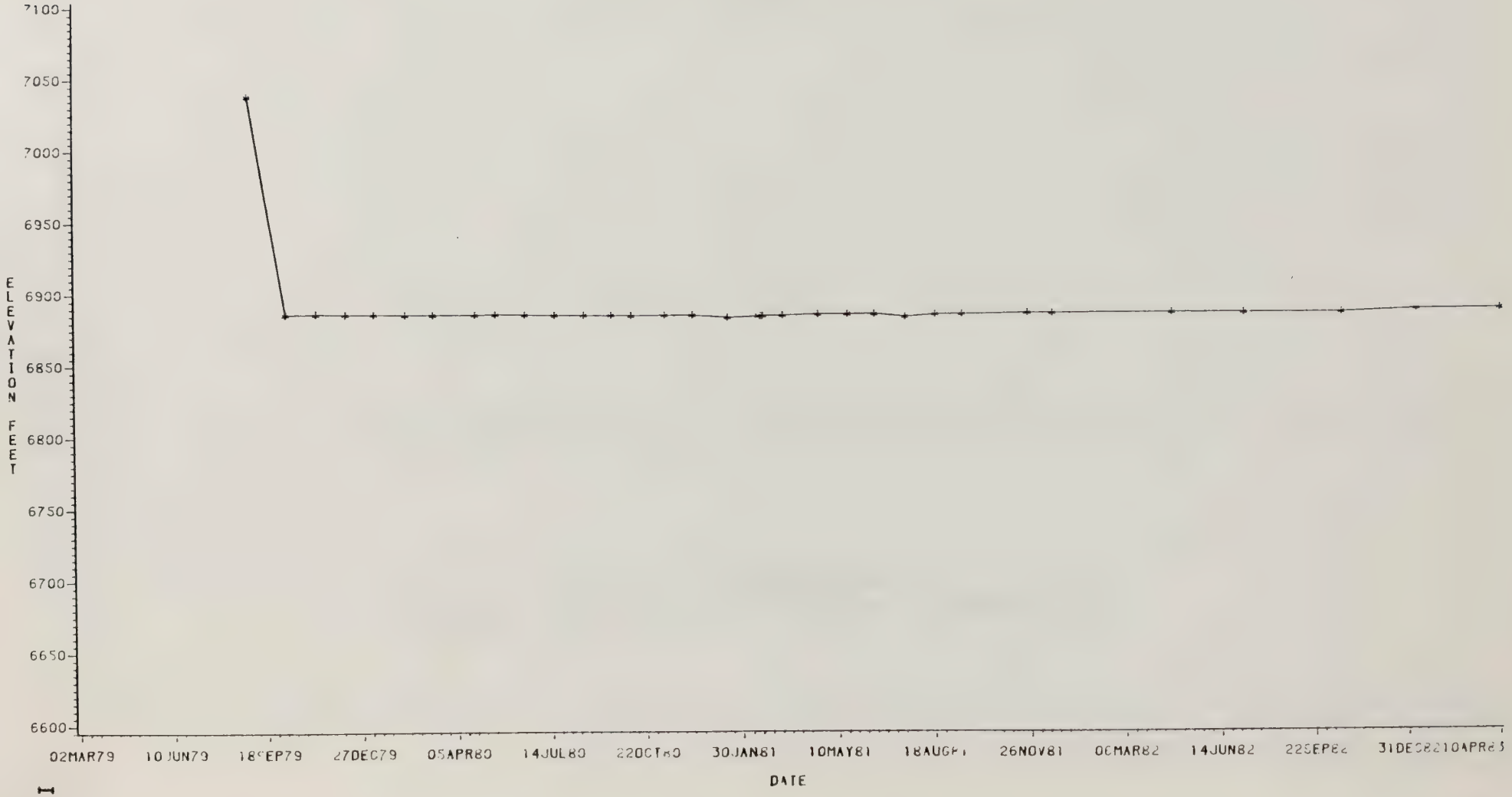
WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY68



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

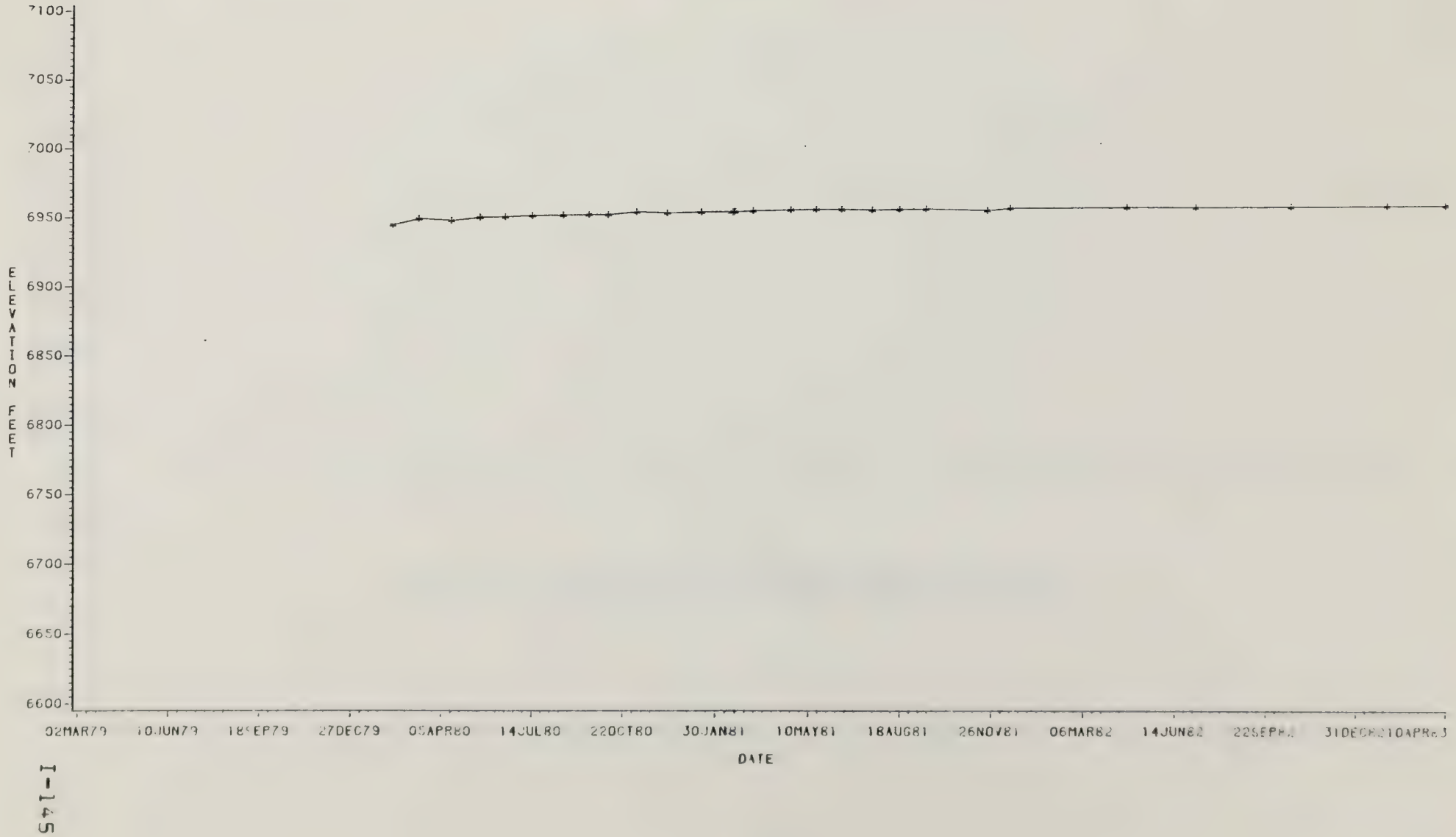
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY69



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

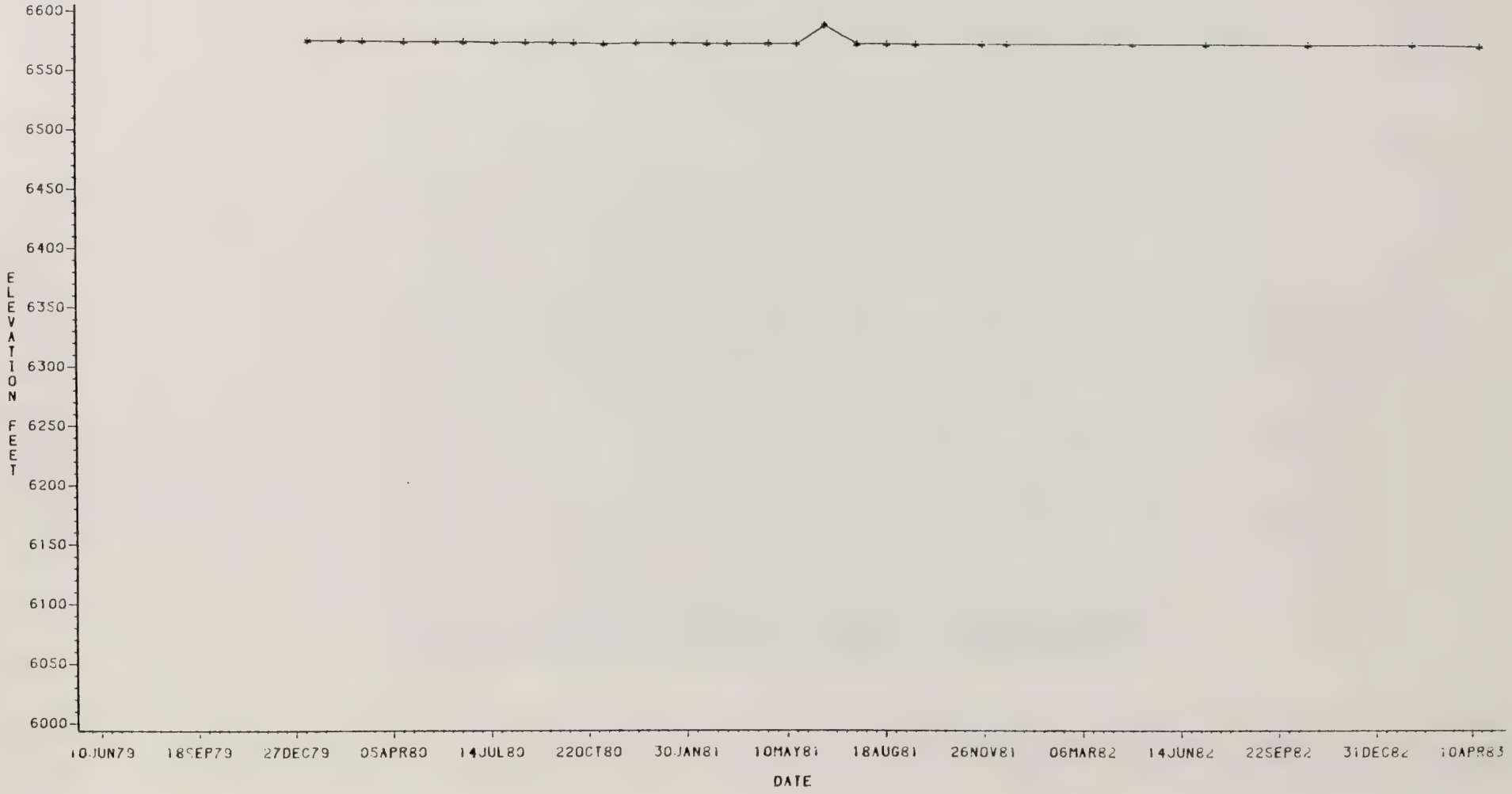
LOC=WY70



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

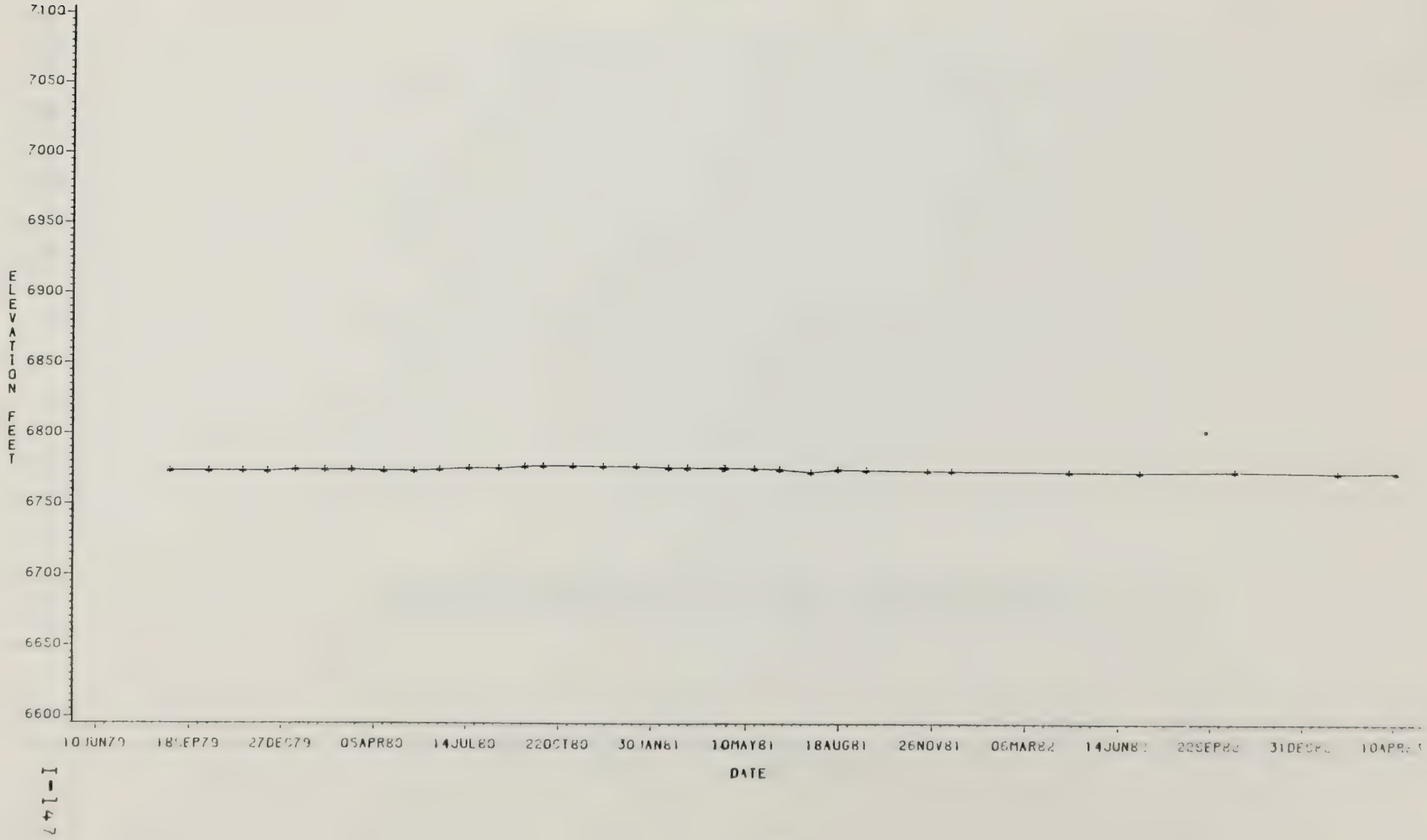
LOC=WY71



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

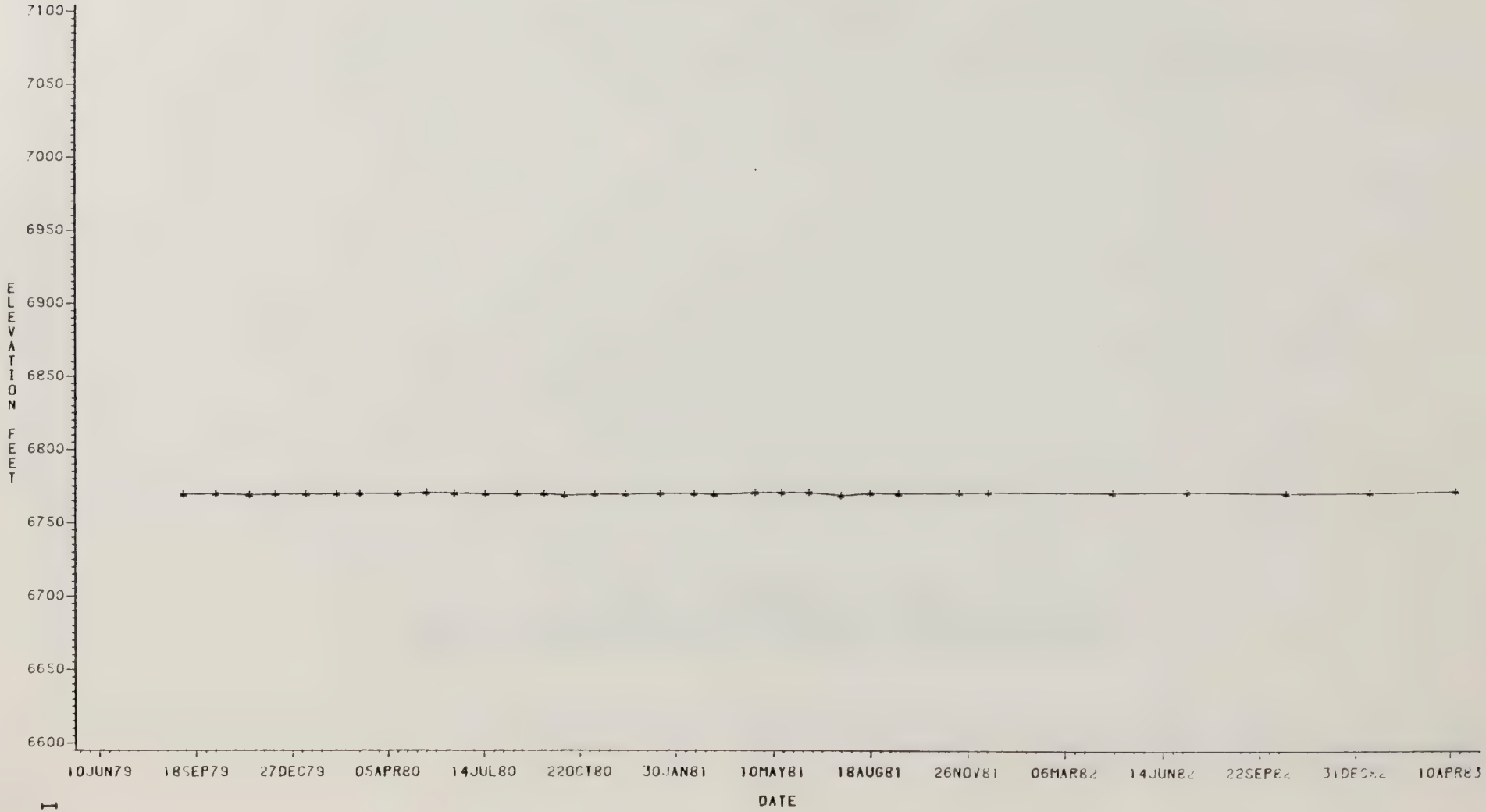
REQUIRED BY WATER AUGMENTATION PLAN

LOC=WY72



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY7S



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN
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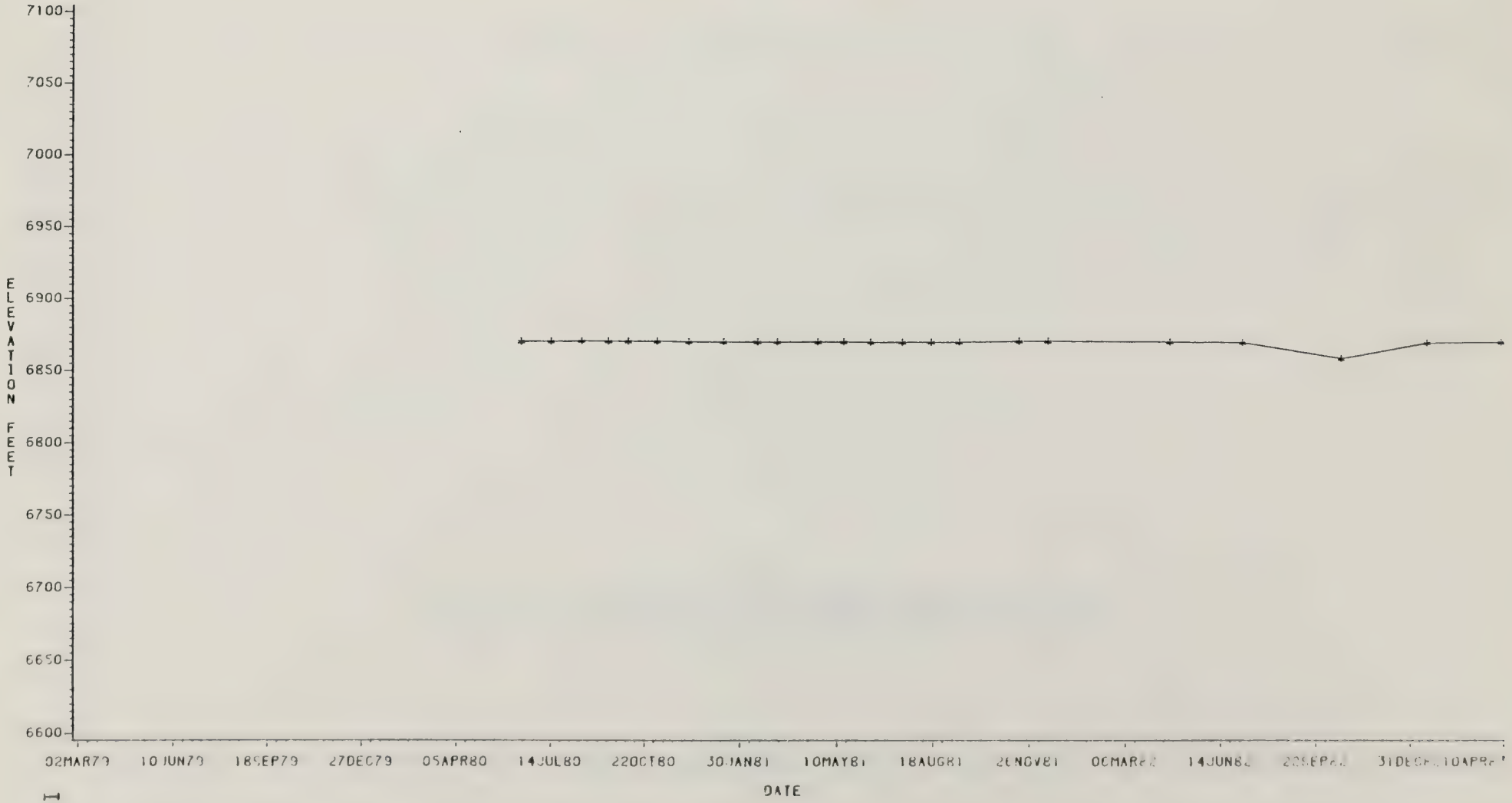
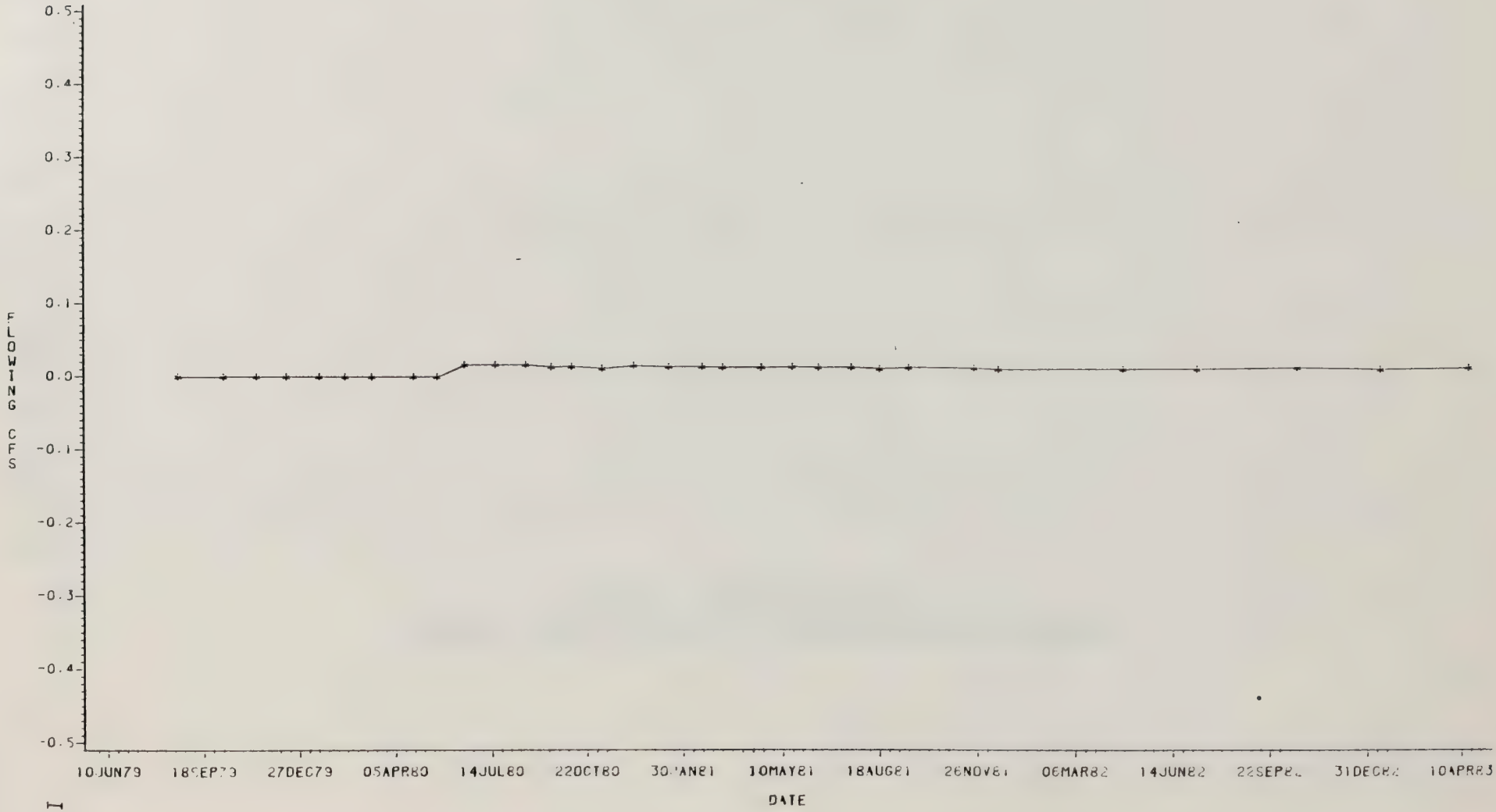


WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

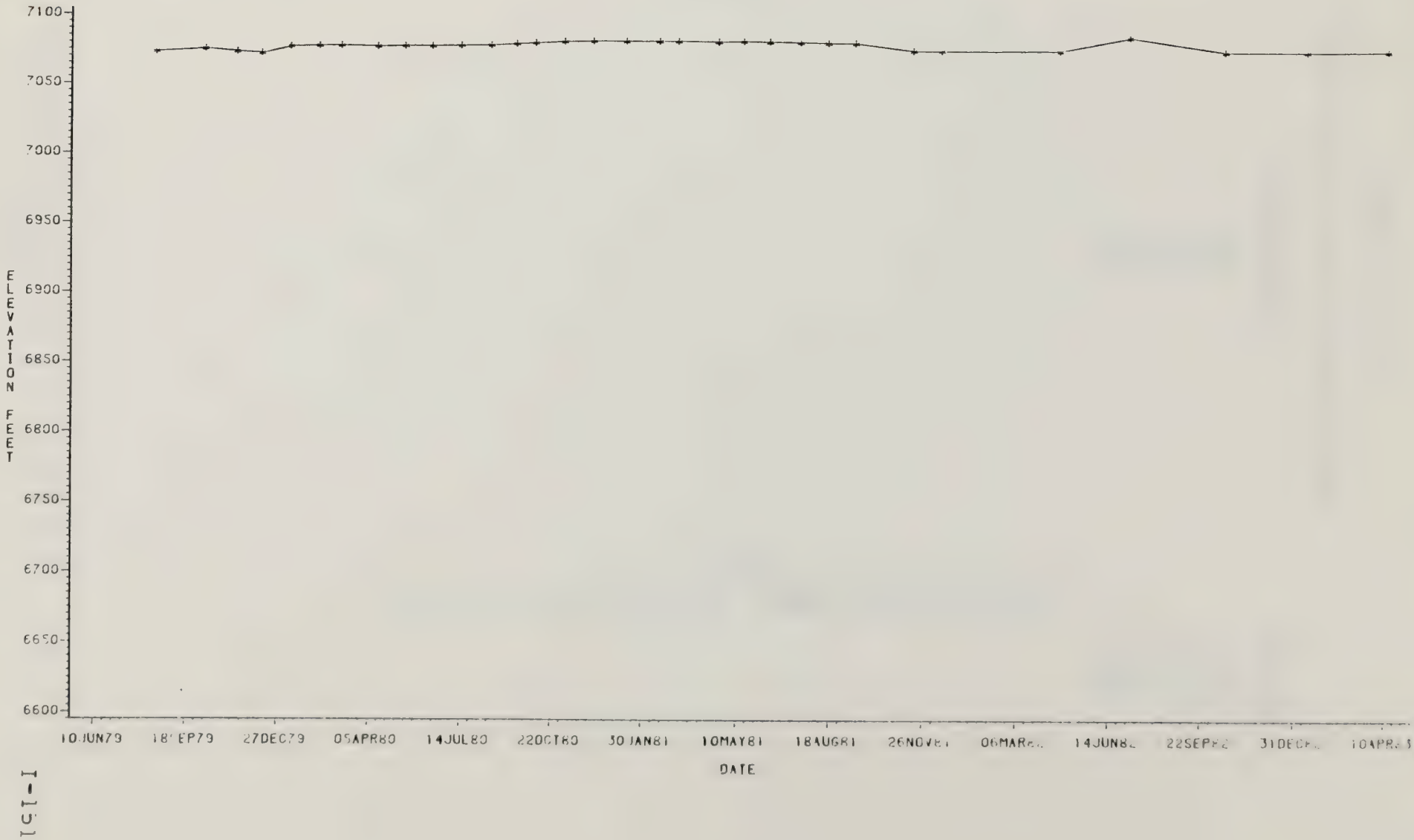
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY77



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN

LOC=WY78



WATER LEVEL PLOTS IN LOWER AQUIFER WELLS

REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY79

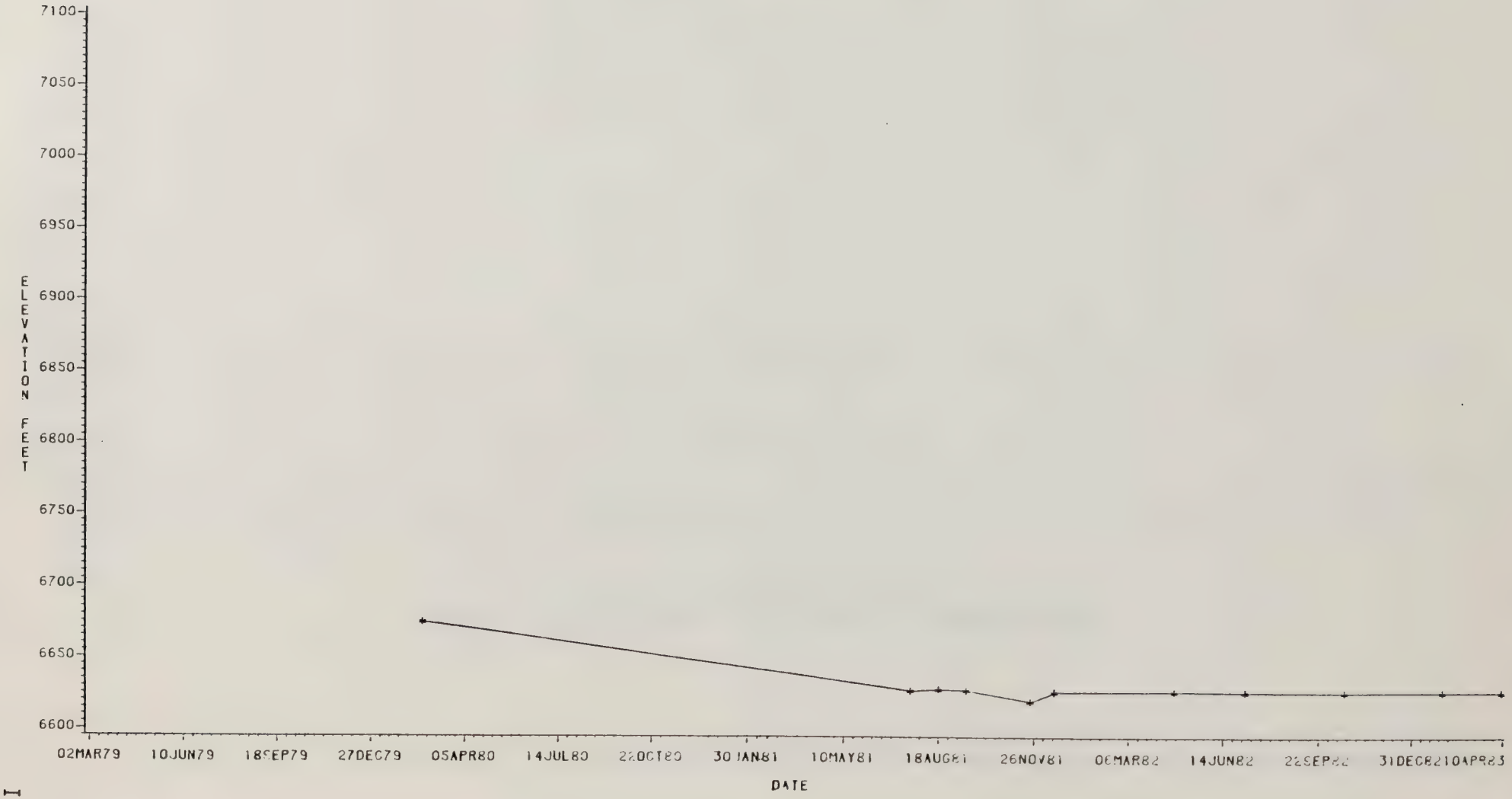


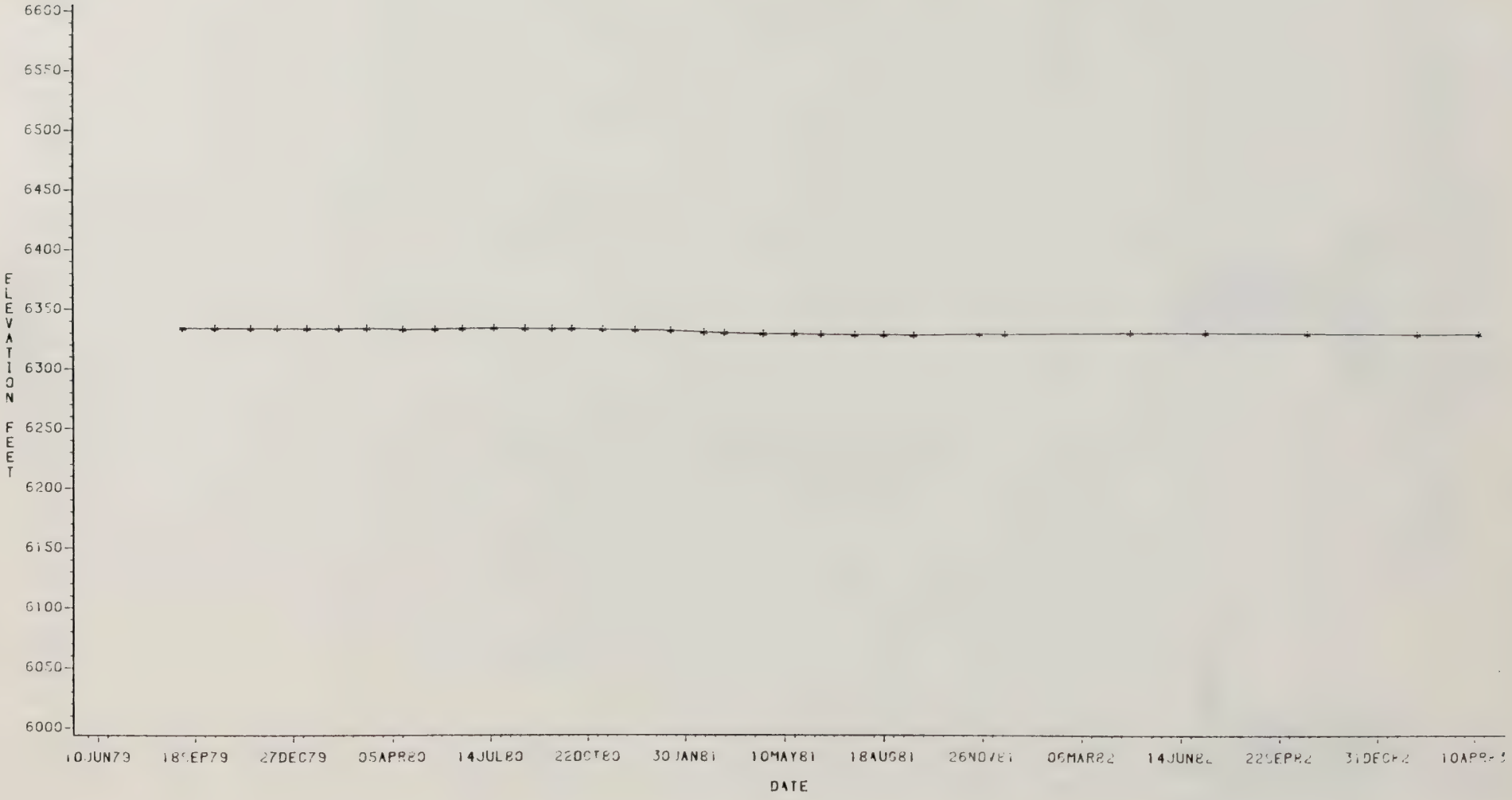
TABLE 1.2.1.4-17

PLOTS OF WATER LEVELS IN COMPOSITE WELLS

Well No.	Computer Code	Page No.
GREENO 404	WV01	I-154
OLDLAND 3	WV02	I-155
GP-17X-BG	WV03	I-156
BUTE 25	WV04	I-157
LIBERTY BELL 12	WV05	I-158
TG 71-1	WV10	I-159

WATER LEVEL PLOTS IN COMPOSITE WELLS

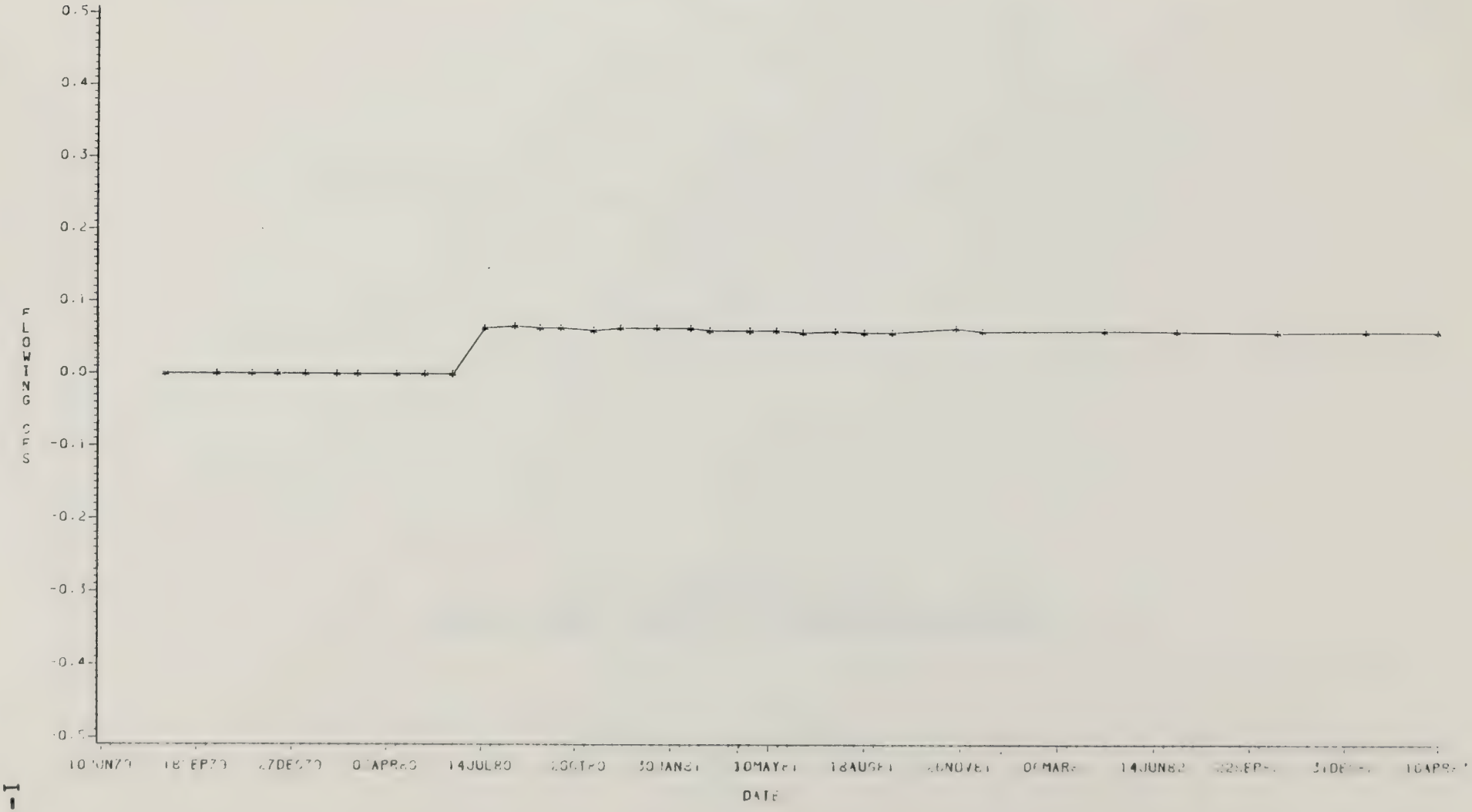
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WV01



WATER LEVEL PLOTS IN COMPOSITE WELLS

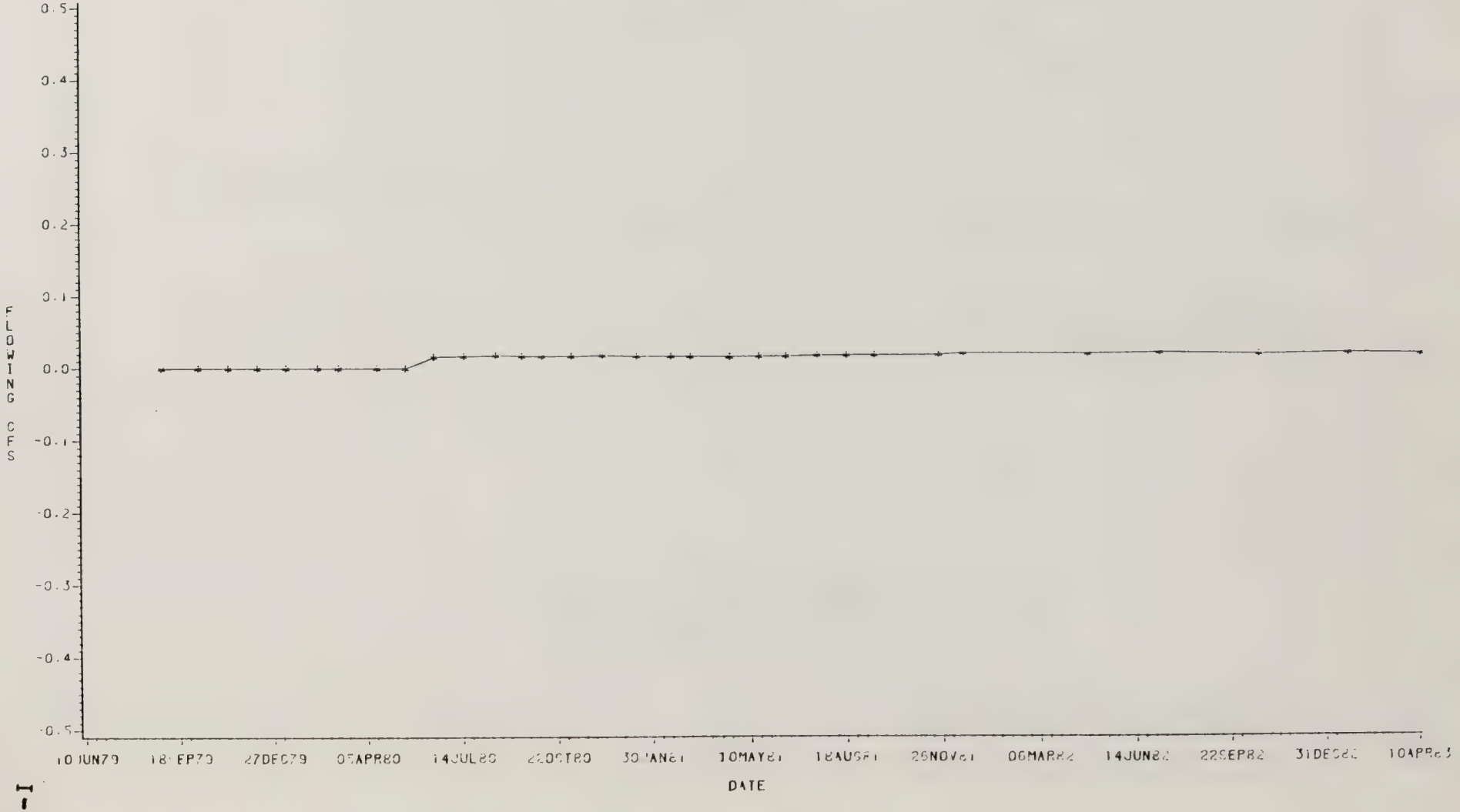
REQUIRED BY WATER AUGMENTATION PLAN

LOC=WV02



WATER LEVEL PLOTS IN COMPOSITE WELLS

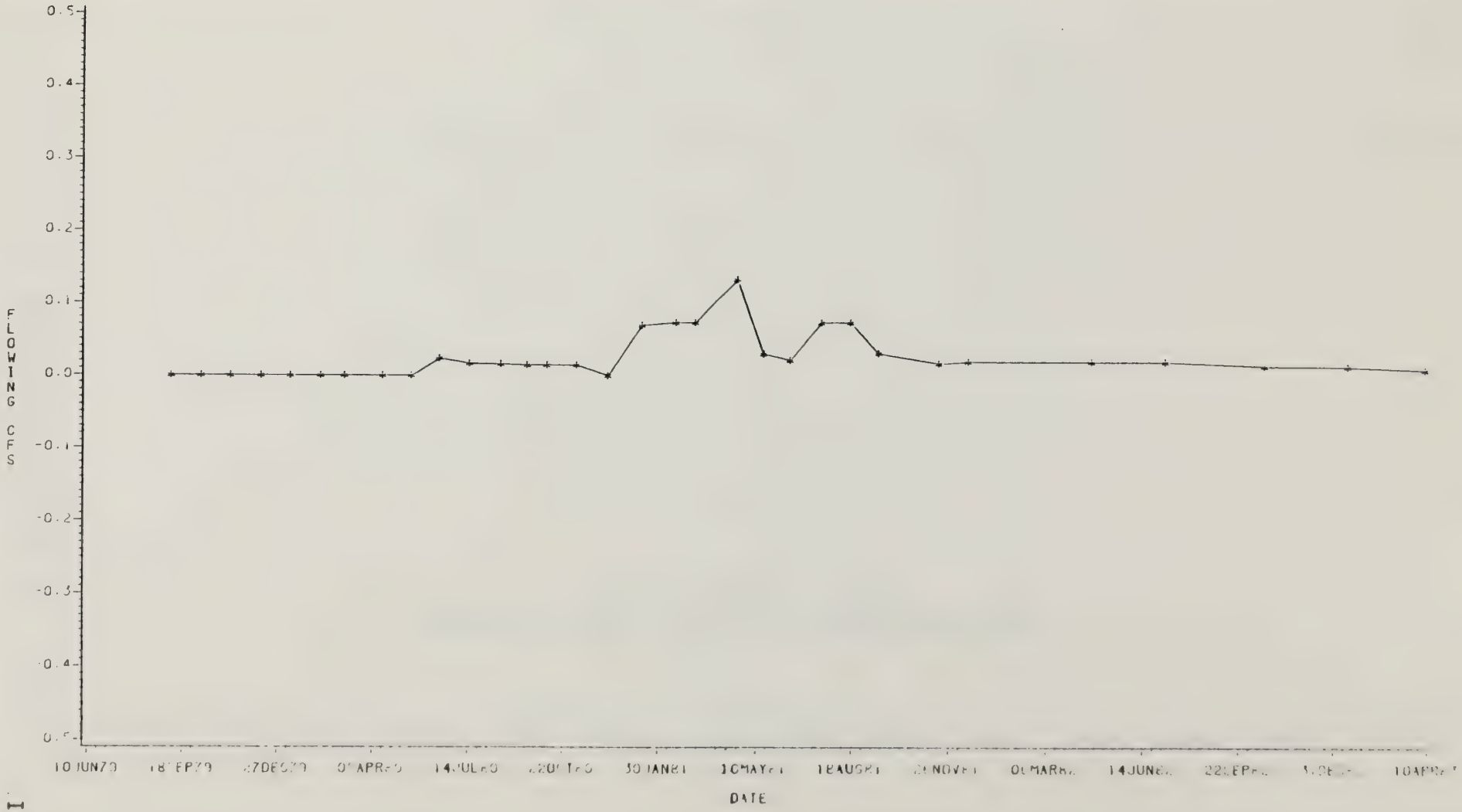
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WV03



WATER LEVEL PLOTS IN COMPOSITE WELLS

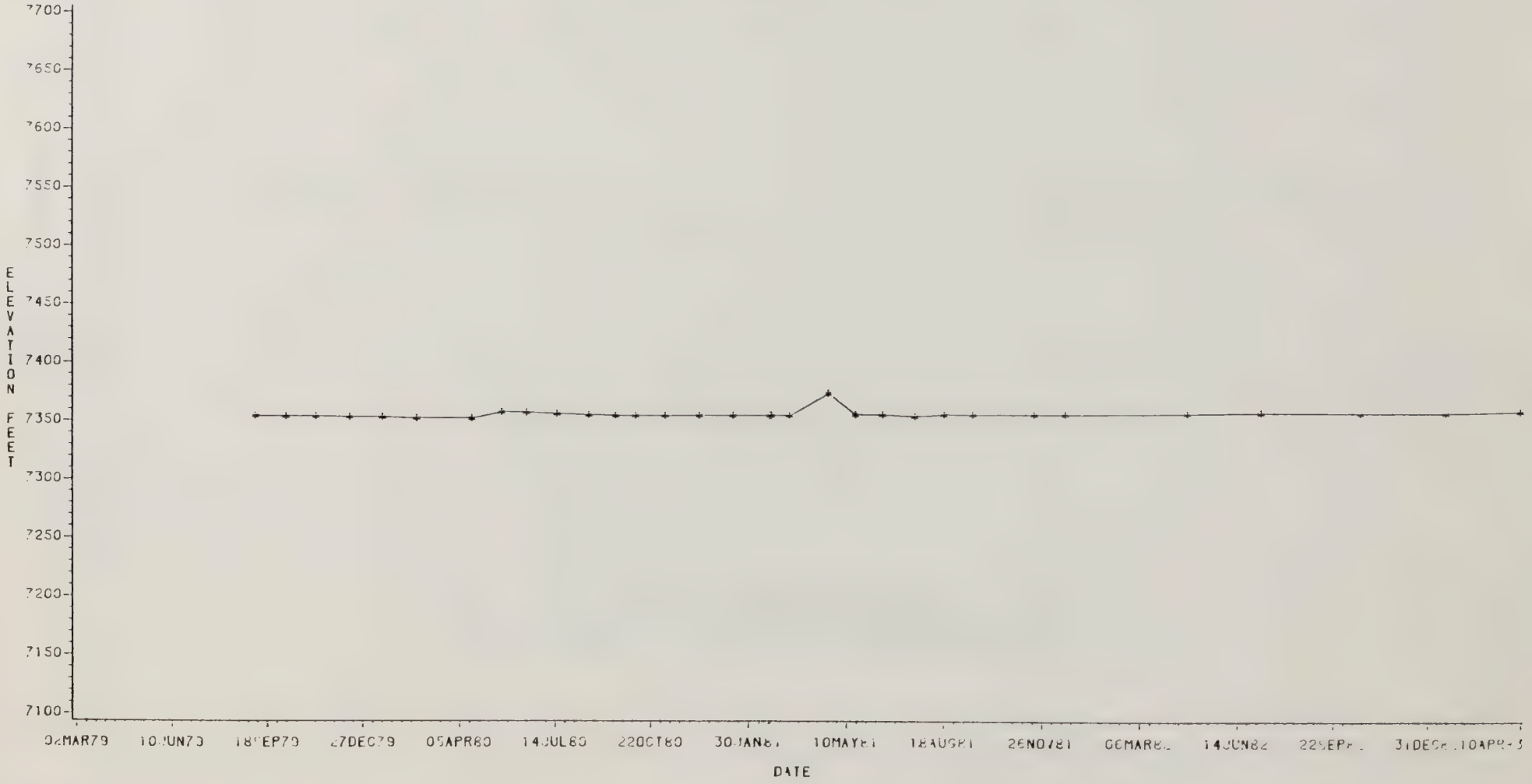
REQUIRED BY WATER AUGMENTATION PLAN

LOC=W704



WATER LEVEL PLOTS IN COMPOSITE WELLS

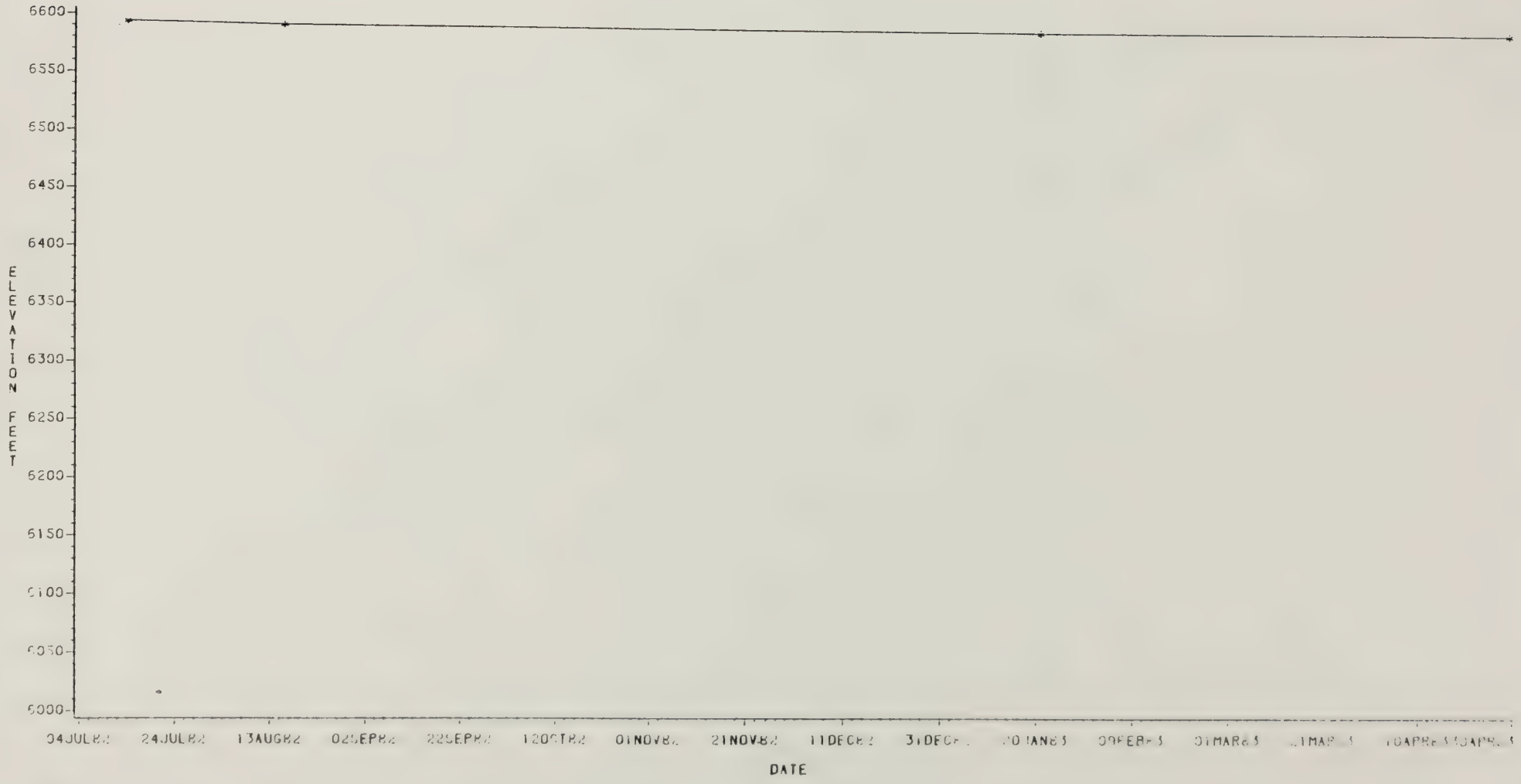
REQUIRED BY WATER AUGMENTATION PLAN
LOC=WY05



WATER LEVEL PLOTS IN COMPOSITE WELLS

REQUIRED BY WATER AUGMENTATION PLAN

LOC=WV10



1.2.1.5 Impoundments/Land Application/Reinjection/ Discharge

Discharging of mine water into Piceance Creek began in July 1982. Water samples for flow and quality analyses were taken at ponds A/B discharge point. Fluoride samples were taken in the field at A/B discharge point (WN40), above discharge point on Piceance Creek (WN41), below discharge point on Piceance Creek (WN42), and at Hunter Creek (USGS Station 061) (WU02). Refer to Table 1.2.1.5-1 for flow and field measurements. Water analyses are reported in Section 1.2.2.5.

Monthly levels samples were taken at 22X-17 (WI19) and 24X-17 (WI17) during January through May 1983. Data are presented in Table 1.2.1.5-2. These wells are designated as injection wells but have never been utilized as such. Plots of these wells for levels follow the data table in Figures 1.2.1.5-1 and 1.2.1.5-2.

Weekly levels readings were taken at pond seepage wells 41X13 (WW13) and 31X12 (WW22) while monthly levels samples were taken at the shale pile seepage well 32Y12 (WW32) during January through May 1983; see Table 1.2.1.5-3. Plots of the pond seepage wells are reported in Bedrock Well Section 1.2.1.4. Refer to Table 1.2.1.4-14 in that section for the corresponding page number. These wells are monitoring water levels in the UPC_1 zone and are reviewed monthly to detect any changes.

Location of water stations presented in this sub-section can be referenced on Figure 1.2-1 (jacket map).

Table 1.2.1.5-1

CB-TRACT
NPDES DISCHARGE
WEEKLY AND MONTHLY FIELD MEASUREMENTS

LOC	YR	MO	DY	FLOW (CFS)	PH UNIT	SPECIFIC CONDUCTIVITY (MG/L)	DISS OXYGEN (MG/L)	FIELD FLUORIDE (MG/L)	TEMPERATURE (DEG C)
WN40	83	1	5	.9				20.5	
			13	.9	8.60	2230.0		20.7	9.0
			20	1.0	8.70	1970.0		22.7	9.0
			27	1.0	8.67	2120.0		22.1	10.0
		2	3	1.0	8.70				8.0
			10	1.0	8.70	2100.0			10.0
			17	1.0	8.70	2170.0			11.0
			24	1.0	8.71	2100.0			11.0
		3	3	1.0	8.80	2090.0			11.0
			17	1.0	8.68	2040.0			11.0
			24		8.70	2030.0			11.0
			30		8.70	2040.0			12.0
		4	14	1.0	8.70	2080.0		20.3	10.5
			21	1.0	8.80	2100.0		21.5	16.5
			27	1.0	8.80	2110.0		22.1	15.0
		5	5	.9	8.80	2130.0		22.6	15.0
			12	1.0	8.80	2130.0			10.0
			19	1.0	8.90	2100.0		25.3	14.0
			26	.9	8.80	2400.0			19.0
WN41	83	1	5					.9	
			13					.7	
			20					.7	
			27					.8	
		2	3					.7	
			10					.8	
			17					.8	
		3	3					.7	
			9					.7	
			17					.7	
			24					.7	
			30					.8	
		4	7					.6	
			14					.6	
			21					.5	
		5	4					.5	
WN42	83	1	5					2.2	
			13					2.3	
			20					2.4	
			27					2.2	
		2	3					2.1	

NOTE: -INDICATES LESS THAN

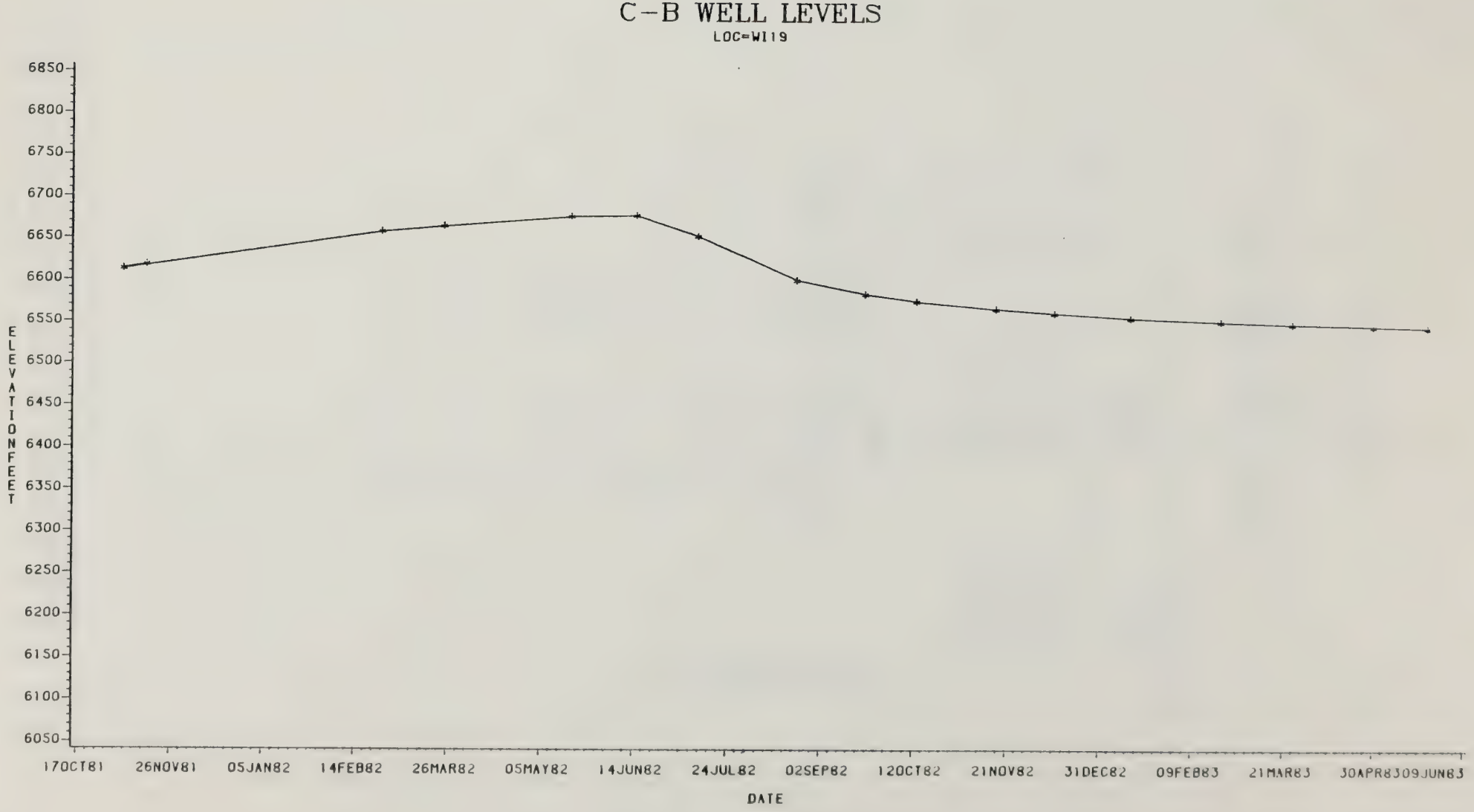


FIGURE 1.2.1.5-1

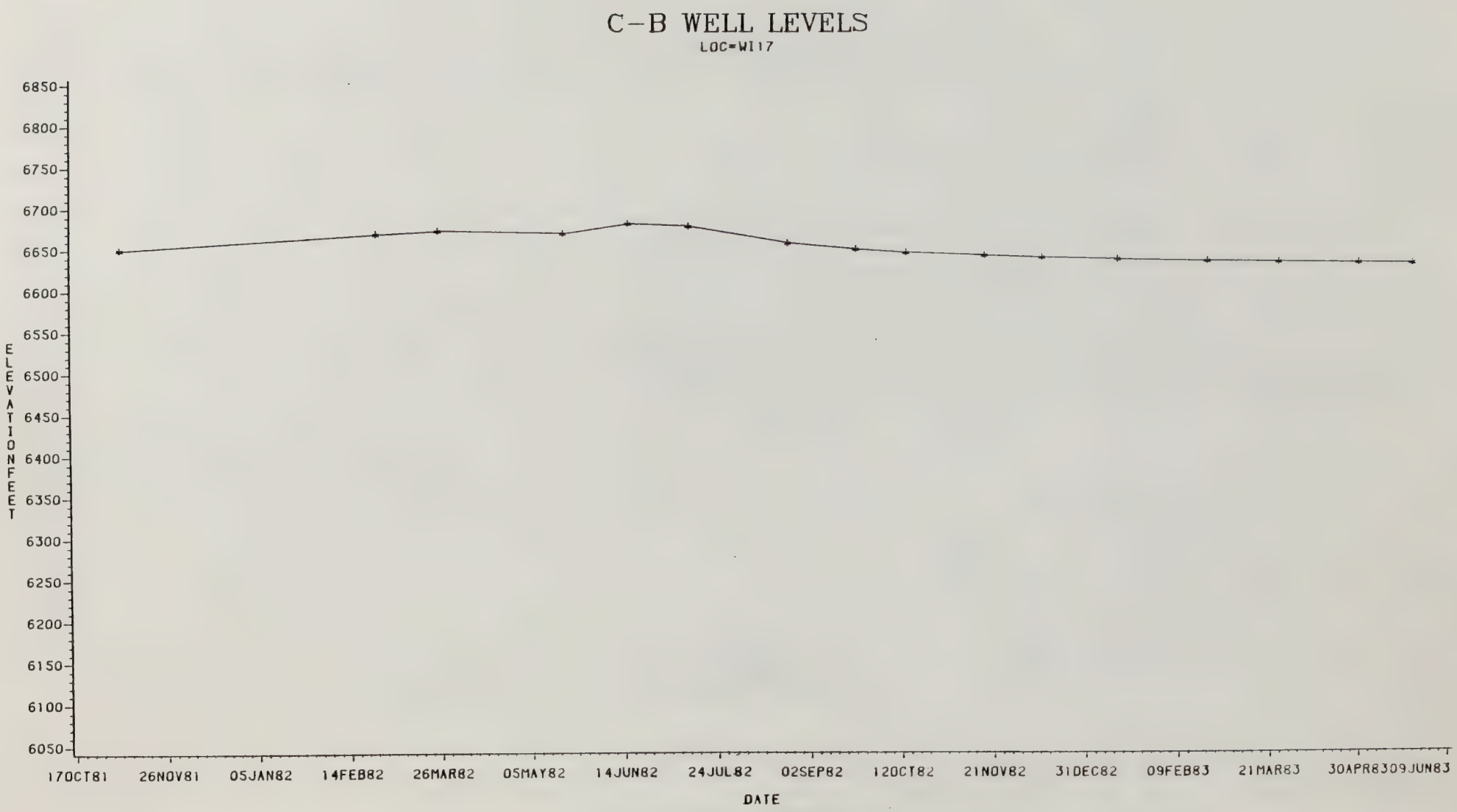


FIGURE 1.2.1.5-2

Table 1.2.1.5-2

CB-TRACT
WATER LEVELS FOR INJECTION WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL	
			WI17	WI19
YR	MO	DY	DEPTH (FT)	DEPTH (FT)
83	1	14	6635.89	6557.39
	2	22	6634.00	6553.50
	3	25	6632.89	6550.70
	4	30	6631.89	6548.20
	5	24	6631.00	6546.40

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 1.2.1.5-3

C-B TRACT
SEEPAGE MONITORING WELLS

YR	MO	DY	WW13 ELEV (FT)	WW22 ELEV (FT)	WW32 ELEV (FT)
83	1	4	6649	6589	6730
		11	6646	6588	
		18	6644	6588	
		25	6643	6588	
		28	6643	6588	
	2	1	6642	6587	
		8	6642		
		9		6587	
		15	6640	6587	
		22	6639		
		23		6587	6728
		25	6639		
	3	1	6638	6586	
		8	6637	6587	
		15	6637	6587	
		22	6635	6587	
		26			6729
		29	6635	6588	
	4	5	6634	6588	
		12	6633	6588	
		19	6632	6588	
		26	6631	6589	
		27			6729
	5	3	6631	6589	
		10	6630	6589	
		18		6588	
		19	6629		
		24	6628	6589	6729
		31	6628	6589	

SHAFT AND
MINE WATER

1.2.1.6 Shaft and Mine Water

Water levels readings are continuing to be taken weekly since flooding the V/E shaft in September 1981. Data for June through December 1982 are included in this section along with a Plot of water elevation in the shaft since recovery. See Table 1.2.1.6-1 and Figure 1.2.1.6-1.

A water usage report is submitted to the State Engineer's Office monthly. This report consists of all water used and pumped on the C-b Tract. Table 1.2.1.6-2 reports these waters in gallons coming from the various wells, ponds and shafts.

Table 1.2.1.6-1

CB-TRACT
SHAFT WATER LEVELS

YR	MO	DY	SHAFT WZ01 DEPTH (FT)
83	1	4	6295.3945
		11	6294.8945
		18	6294.6953
		25	6294.6953
	2	1	6294.5977
		8	6295.0000
		15	6294.5977
		22	6294.3945
	3	1	6294.2969
		8	6294.0977
		15	6293.5977
		22	6294.0000
		29	6293.6953
	4	5	6293.8945
		12	6293.8945
		19	6293.7969
		26	6293.7969
	5	3	6293.6992
		10	6294.0000
		17	6293.8984
		24	6293.0000
		31	6292.6992

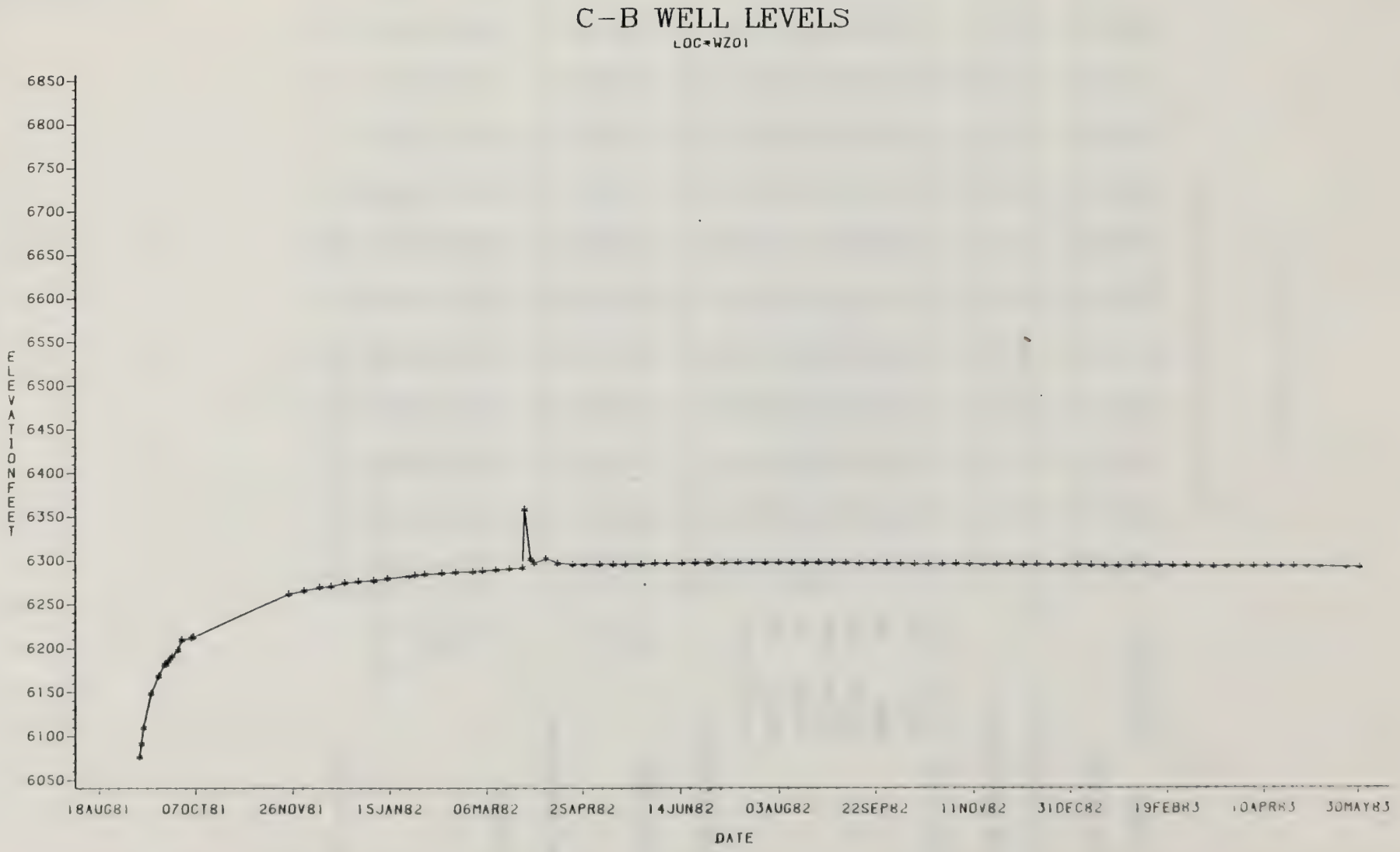


FIGURE 1.2.1.6-1

Table 1.2.1.6-2

1983 C-B WATER USAGE (10**6 GALLONS, * =ACRE FEET)

	USE	SOURCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL YTD	TOTAL YRS TD
ALL SHAFTS	GLAND WTR	PUMP STA	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		190.6
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		584.9*
*TOTAL ALL SHAFTS			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		190.6
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		584.9*
OFF-TRACT WTR USED	POTABLE	TOWN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		1.1
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		3.3*
*TOTAL OFF-TRACT WTR USED			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		1.1
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		3.3*
TRACT WATER USED	BATCH PLNT	24X-25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		2.5
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		7.6*
	CONSTR	PONDS	.01	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	18.0
			0.03*	0.05*	0.05*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	.13*	55.2*
	CONSTR	24X25	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.05	1.7
			0.00*	0.00*	0.00*	0.07*	0.07*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	.15*	5.2*
	DUST CNTL	PONDS	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.03	6.7
			0.00*	0.00*	0.00*	0.00*	0.09*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	.09*	20.5*
	EVP & LEAK	POND C	.00	.00	.00	.02	.07	.00	.00	.00	.00	.00	.00	.00	.10	144.7
			0.00*	0.00*	0.00*	0.08*	0.23*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	.31*	444.2*
	NPDES REL	PONDS	20.83	18.17	20.45	19.44	19.95	.00	.00	.00	.00	.00	.00	.00	98.83	887.5
			63.91*	55.74*	62.74*	59.64*	61.21*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	303.24*	2,723.2*
	REINJECT	PONDS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		[illegible]
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		692.6*
	SPR IRRIG	POND C	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		79.1
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		242.6*
*TOTAL TRACT WATER USED			20.84	18.18	20.46	19.49	20.07	.00	.00	.00	.00	.00	.00	.00	99.04	1,365.9
			63.94*	55.79*	62.79*	59.79*	61.60*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	303.91*	4,191.0*
WATER IN STORAGE	-	POND A	1.00	1.00	1.00	1.00	1.00	.00	.00	.00	.00	.00	.00	.00		
			3.07*	3.07*	3.07*	3.07*	3.07*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		
	-	POND B	.15	.15	.15	.15	.15	.00	.00	.00	.00	.00	.00	.00		
			0.46*	0.46*	0.46*	0.46*	0.46*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		
	-	POND C	.20	.20	.20	.17	.10	.00	.00	.00	.00	.00	.00	.00		
			0.61*	0.61*	0.61*	0.54*	0.31*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		
*TOTAL WATER IN STORAGE			1.35	1.35	1.35	1.32	1.25	.00	.00	.00	.00	.00	.00	.00		
			4.14*	4.14*	4.14*	4.07*	3.84*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		
WATER PUMPED	-	33X-1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		4.3
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		13.3*
	-	24X-25	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.05	8.0
			0.00*	0.00*	0.00*	0.07*	0.07*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	.15*	24.5*
	-	32X-12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		5.9
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		18.0*
	-	V/E SHAFT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		678.9
			0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*		2,083.1*
	-	PROD & SERV	21.19	18.62	20.83	19.92	19.98	.00	.00	.00	.00	.00	.00	.00	100.55	913.6
			65.04*	57.14*	63.91*	61.13*	61.31*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	308.52*	2,803.3*
*TOTAL WATER PUMPED			21.19	18.62	20.83	19.94	20.00	.00	.00	.00	.00	.00	.00	.00	100.60	1,610.6
			65.04*	57.14*	63.91*	61.20*	61.38*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	308.67*	4,942.2*

SHALE DUMP

1.2.1.7 Shale Dumps

Leachate data were collected from the lysimeters for May 1983. The leachates are initiated from precipitation percolating (leaching) through the raw shale to the collectors. Collector bottles are designated A thru E. Test set up was described in 1981 C.B. Annual Report.

Field measurement (pH, DO, conductivity and temperature) data are also collected at the lysimeters at three depths. Chemical analyses are analyzed and reported by Colorado State University.

LYSIMETER CHECK

C.B. TRACT

Date: 5/2/83 Time: A.M. Observer: Ralphs	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume Liters	1.7				12.6	2.0	2.0		20.0	0.6	2.0	2.0		20.0	Trace	
Temp ^{o}C	0.5				.5	.5	.5		1.0	.5	.5	.5		1.0	-	
PH	8.01				8.19	8.02	8.03		8.03	7.98	7.62	7.71		7.92		
Conductivity (umhos)	5780				5410	6050	6110		4990	2510	5640	5770		5370		
Date: 5/3/83 Time: A.M. Observer: Ralphs																
Volume Liters					10.5	2.0	2.0		7.4		2.0	2.0		10.2		
Temp ^{o}C																
PH																
Conductivity (umhos)																
Date: 5/4/83 Time: 12 Noon Observer: Ralphs																
Volume Liters					7.4	2.0	2.0		19.0		2.0	2.0		20.0		
Temp ^{o}C																
PH																
Conductivity (umhos)																

LYSIMETER CHECK

C.B. TRACT

	10 Foot					15 Foot					20 Foot					COMMENTS
Date: 5/5/83 Time: P.M. Observer: Ralphs	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume Liters	0.6				17.6	2.0	2.0		20.0		2.0	2.0		20.0		
Temp °C																
PH																
Conductivity (umhos)																
Date: 5/6/83 Time: 0938 Observer: Pysto																
Volume Liters	0.25				0.65	2.0	2.0		2.65		2.0	2.0		11.7		
Temp °C																
PH																
Conductivity (umhos)																
Date: 5/9/83 Time: A.M. Observer: Ralphs																
Volume Liters	0.8				1.6	2.0	2.0		3.7		2.0	2.0		20.0	0.5	
Temp °C	7				7	7	7		7		7	7		7		
PH	8.01				8.17	7.93	7.88		8.08		7.77	7.93		7.91		
Conductivity (umhos)	5440				5520	6180	6230		6050		6130	6060		6210		

LYSIMETER CHECK

C.B. TRACT

Date: 5/11/83 Time: A.M. Observer: Ralphs	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume Liters					3.1	2.0	2.0		3.6		2.0	2.0		17.7		
Temp ^{o}C																
PH																
Conductivity (umhos)																
Date: 5/16/83 Time: AM Observer: Ralphs																
Volume Liters	0.8				1.6	2.0	2.0		1.8		2.0	2.0		20.0		
Temp ^{o}C																
PH																
Conductivity (umhos)																
Date: Time: Observer:																
Volume Liters	0.1				1.6	2.0	2.0		4.3	0.6	2.0	2.0		20.0	8.5	
Temp ^{o}C	7				6	6	6		6	8	6			6	7	
PH	7.93				8.11	8.04	8.02		8.01	8.32	8.02	7.99		8.12	8.16	
Conductivity (umhos)	5870				5160	6480	5610		5010	6850	6520	6740		1680	1390	

LYSIMETER CHECK

C.B. TRACT

Date: 5/23/83 Time: Observer: Newbould	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume liters					1.5	2L	2L		20L		2L	2L		20L		
Temp ^{o}C					9	8	9		8.5		9	8		8		
PH					8.04	7.89	7.87		7.62		7.94	7.89		7.95		
Conductivity (umhos)					5.96	6.62	5.34		6.05		5.89	5.59		5.55		
Date: 5/24/83 Time: Observer: Newbould																
Volume liters					1.600	2L	1.700		0.1		2L	2L		.475		
Temp ^{o}C																
PH																
Conductivity (umhos)																
Date: 5/25/83 Time: 1100 Observer: Newbould																
Volume liters					1.5	2	.1				2	2		5.56		
Temp ^{o}C																
PH																
Conductivity (umhos)																

LYSIMETER CHECK

C.B. TRACT

Date: 5/31/83 Time: AM Observer: Ralphs	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume liters	0.2				*1.6	2.0	2.0		2.1		2.0	2.0		20.0		*10e bottle leaking aroun spout - bottle replaced.
Temp ^{o}C	7				7	6	6		7		6	6		8		
PH	8.38				8.40	7.99	8.03		8.28		8.10	8.05		8.09		
Conductivity (umhos)	5970				5890	6200	6230		6200		6700	6730		6840		
Date: 6/3/83 Time: AM Observer: Ralphs																
Volume	-	-	-	-	4.8	2.0	0.1	-	-	-	2.0	2.0	-	10.3	-	
Temp																
PH																
Conductivity (umhos)																
Date: 6/8/83 Time: AM Observer: Newbould																
Volume	0.4	-	-	-	5.5	2.0	0.5	-	-	-	2.0	2.0	-	14.7	-	
Temp																
PH																
Conductivity (umhos)																

LYSIMETER CHECK

C.B. TRACT

Date: 6/9/83 Time: 4:00 PM Observer: Ralphs	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume	T	-	-	-	1.3	2.0	0.2	-	-	-	2.0	2.0	-	0.4	-	
Temp																
PH																
Conductivity (umhos)																
Date: 6/14/83 Time: AM Observer: Ralphs																
Volume liters	140	-	-	-	4.9	2.0	1.2	-	-	-	2.0	2.0	-	9.2	-	
Temp ^{o}C	13^{o}				9^{o}	8^{o}	8^{o}				9^{o}	9^{o}		8^{o}		
PH	8.16				8.24	7.90	7.96				8.01	7.86		7.90		
Conductivity (umhos)	.66				.66	.71	.68				.83	.82		.80		
Date: Time: Observer:																
Volume																
Temp																
PH																
Conductivity (umhos)																

SUPPLEMENTAL
WATER DATA

1.2.1.8 Supplemental Water Data - Hydrology

Daily flow readings from Willow and Hunter Creeks for water year 1983 (October 1982 - March 1983) are reported in Tables 1.2.1.8-1 and 1.2.1.8-4 respectively.

Water levels data from five Mobil Oil Company monitoring wells are included in this section for June 1981 through May 1983. Tabulated data can be referenced in Table 1.2.1.8-5. Time series plots follow this data table for Wells MW01 (Well No. 1), MW02 (Well No. 2), MW03 (Well No. 3), MW12 (Well No. 12), and MW13 (Well No. 13), consecutively.

Data reported in this supplemental section are required by WAP.

JEX-PILAND *Engineers & Geologists*

Stream Hunter Creek - Shell Station

Year 1982

Discharge in Cubic Feet Per Second

	October			November			December		
Day	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.
1	1.2	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.1
2	1.2	1.3	1.2	1.3	1.3	1.2	1.1	1.1	1.1
3	1.3	1.4	1.3	1.2	1.3	1.0	1.1	1.1	1.1
4	1.4	1.5	1.3	1.2	1.2	1.2	1.1	1.1	1.1
5	1.2	1.6	1.2	1.2	1.2	1.2	1.1	1.1	1.1
6	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
7	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
8	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1
9	1.2	1.3	1.2	1.2	1.2	1.2	1.0	1.1	.9
10	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
11	1.2	1.4	1.2	1.2	1.2	1.2	1.1	1.1	1.1
12	1.2	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1
13	1.2	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1
14	1.2	1.3	1.2	1.2	1.2	1.2	1.0	1.1	1.0
15	1.3	1.5	1.2	1.1	1.2	1.0	1.1	1.1	1.0
16	1.3	1.5	1.2	1.1	1.1	1.1	1.1	1.1	1.1
17	1.2	1.2	1.2	1.1	1.4	1.1	1.1	1.1	1.0
18	1.2	1.2	1.2	1.2	1.3	1.2	1.0	1.1	1.0
19	1.2	1.2	1.2	1.1	1.3	1.0	1.0	1.0	1.0
20	1.2	1.2	1.2	1.1	1.3	1.0	1.0	1.0	1.0
21	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	.9
22	1.2	1.2	1.2	1.1	1.1	1.1	.9	1.0	.9
23	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0
24	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0
25	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0
26	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0
27	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0
28	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0
29	1.2	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1
30	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
31	1.2	1.2	1.2				1.1	1.1	1.1
SFD		37.8			34.6			32.8	
Ac. Ft.		75.0			68.6			65.1	
Mean		1.2			1.2			1.1	
Max.		1.6			1.4			1.1	
Min.		1.2			1.0			.9	

COLORADO PRINTING CO. GRAND JUNCTION COLO.

Table 1.2.1.8-2

JEX-PILAND Engineers & Geologists

Stream HUNTER CREEK - SHELL STATION

Year 1983

Discharge in Cubic Feet Per Second

	JANUARY			FEBRUARY			MARCH		
Day	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.
1	0.8	0.8	0.8	0.9	0.9	0.8	1.8	3.1	1.1
2	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.8	1.1
3	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.9	1.1
4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6	1.1
5	0.8	0.8	0.8	0.8	1.1	0.7	1.2	1.2	1.2
6	0.8	0.8	0.8	1.0	1.1	0.9	1.2	1.3	1.2
7	0.8	0.8	0.7	0.9	0.9	0.8	1.1	1.2	1.1
8	0.7	0.7	0.6	0.8	0.9	0.6	1.2	1.5	1.1
9	0.6	0.6	0.6	1.0	3.2	0.7	1.3	2.1	1.1
10	0.6	0.6	0.6	1.0	1.0	1.0	1.4	2.1	1.0
11	0.5	0.6	0.5	1.0	1.1	1.0	1.3	2.0	1.2
12	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.6	1.1
13	0.6	0.6	0.6	1.0	1.1	1.0	1.3	1.6	1.1
14	0.6	0.6	0.6	1.0	1.0	1.0	1.2	1.4	1.2
15	0.6	0.6	0.6	1.0	1.1	1.0	1.2	1.2	1.2
16	0.6	0.6	0.6	1.1	1.1	1.0	1.2	1.2	1.2
17	0.6	0.6	0.6	1.0	1.1	1.0	1.2	1.2	1.2
18	0.6	0.6	0.6	1.1	1.1	1.0	1.2	1.2	1.2
19	0.6	0.6	0.6	1.1	1.1	1.0	1.2	1.2	1.2
20	0.6	0.6	0.6	1.0	1.0	1.0	1.2	1.2	1.2
21	0.6	0.6	0.6	1.0	1.0	1.0	1.2	1.2	1.2
22	0.7	0.8	0.6	1.0	1.0	1.0	1.2	1.2	1.2
23	0.6	0.8	0.4	1.0	1.1	1.0	1.2	1.5	1.2
24	0.4	0.5	0.2	1.1	1.5	1.0	1.2	1.2	1.2
25	0.3	0.3	0.3	1.3	1.9	1.1	1.2	1.2	1.2
26	0.3	0.3	0.3	1.2	1.4	1.1	1.3	1.3	1.2
27	0.7	1.9	0.3	1.1	1.1	1.1	1.3	1.4	1.2
28	1.2	1.8	1.0	1.1	1.4	1.1	1.3	1.3	1.3
29	1.0	1.1	1.0				1.3	1.4	1.3
30	1.0	1.0	1.0				1.2	1.5	1.1
31	0.9	1.0	0.7				1.2	1.2	1.1
SFD		21.1			27.9			39	
Ac. Ft.		41.9			55.3			77.4	
Mean		0.7			1.0			1.3	
Max.		1.2			1.3			1.8	
Min.		0.3			0.8			1.1	

COLORADO PRINTING CO GRAND JUNCTION COLO

Table 1.2.1.8-3

JEX-PILAND Engineers & Geologists

Stream Willow Creek - Shell Station

Year 1982

Discharge in Cubic Feet Per Second

	October			November			December		
Day	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.
1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.1
2	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5
3	1.1	1.1	1.1	1.1	1.4	1.1	1.5	1.5	1.5
4	1.1	1.1	1.1	1.2	1.4	1.2	1.5	1.5	1.5
5	1.1	1.1	1.1	1.2	1.2	1.2	1.5	1.5	1.5
6	1.1	1.1	1.1	1.3	1.3	1.1	1.5	1.5	1.5
7	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5
8	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5
9	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5
10	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5
11	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5
12	1.1	1.1	1.1	1.3	1.3	1.2	1.5	1.5	1.5
13	1.1	1.1	1.1	1.2	1.2	1.2	1.5	1.5	1.5
14	1.1	1.1	1.1	1.2	1.2	1.2	1.5	1.5	1.5
15	1.2	1.3	1.1	1.2	1.2	1.2	1.5	1.6	1.5
16	1.2	1.3	1.1	1.2	1.2	1.2	1.6	1.6	1.3
17	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3
18	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3
19	1.1	1.1	1.1	1.2	1.2	1.1	1.3	1.3	1.3
20	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
21	1.1	1.1	1.1	1.3	1.3	1.1	1.3	1.3	1.3
22	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3
23	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3
24	1.2	1.2	1.1	1.3	1.3	1.3	1.3	1.3	1.3
25	1.2	1.2	1.2	1.4	1.4	1.3	1.3	1.3	1.3
26	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.3
27	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4
28	1.1	1.2	1.1	1.4	1.4	1.4	1.4	1.4	1.4
29	1.1	1.1	1.1	1.4	1.4	1.4	1.3	1.4	1.3
30	1.1	1.1	1.1	1.4	1.4	1.4	1.3	1.4	1.3
31	1.1	1.1	1.1				1.4	1.4	1.4
SFD		34.7			37.9			44.0	
Ac. Ft.		68.8			75.2			87.3	
Mean		1.1			1.3			1.4	
Max.		1.3			1.4			1.6	
Min.		1.1			1.1			1.3	

COLORADO PRINTING CO., GRAND JUNCTION, COLO

Table 1.2.1.8-4

JEX-PILAND *Engineers & Geologists*

Stream WILLOW CREEK - SHELL STATION

Year 1983

Discharge in Cubic Feet Per Second

	JANUARY			FEBRUARY			MARCH		
Day	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.	Daily Average	Daily Max.	Daily Min.
1	0.8	0.8	0.8	1.1	1.2	1.1	1.7	2.7	1.4
2	0.8	0.8	0.8	1.1	1.1	1.1	1.6	2.3	1.5
3	0.8	0.8	0.8	1.1	1.3	1.1	1.5	1.5	1.5
4	0.8	0.8	0.8	1.1	1.1	1.1	1.5	1.5	1.4
5	0.8	0.8	0.8	1.1	1.1	1.1	1.5	1.6	1.5
6	0.8	0.8	0.8	1.1	1.2	1.1	1.4	1.5	1.4
7	0.8	0.8	0.8	1.1	1.1	1.1	1.4	1.4	1.4
8	0.8	0.8	0.8	1.1	1.1	1.1	1.5	1.5	1.4
9	0.8	0.8	0.8	1.1	1.5	1.1	1.5	1.7	1.5
10	0.8	0.8	0.8	1.1	1.1	1.1	1.8	3.0	1.5
11	0.9	1.0	0.8	1.1	1.2	1.1	1.7	1.7	1.6
12	1.0	1.0	0.8	1.1	1.1	1.1	1.7	1.7	1.6
13	1.0	1.1	0.9	1.2	1.2	1.1	1.6	1.6	1.6
14	1.0	1.0	0.8	1.1	1.1	1.1	1.7	1.7	1.6
15	1.0	1.0	0.9	1.1	1.2	1.1	1.7	1.7	1.7
16	1.0	1.0	0.8	1.2	1.2	1.1	1.7	1.7	1.7
17	1.0	1.0	1.0	1.1	1.1	1.1	1.7	1.7	1.7
18	1.0	1.1	1.0	1.2	1.5	1.1	1.7	1.8	1.7
19	1.1	1.1	1.1	1.2	1.3	1.2	1.8	1.8	1.8
20	1.1	1.1	1.1	1.2	1.2	1.2	1.8	1.8	1.8
21	1.1	1.1	1.1	1.2	1.2	1.2	1.8	1.9	1.8
22	1.1	1.1	1.1	1.2	1.2	1.2	1.8	1.9	1.7
23	1.1	1.1	1.1	1.2	1.5	1.2	1.7	1.8	1.7
24	1.1	1.1	1.1	1.5	2.8	1.2	1.7	1.8	1.6
25	1.1	1.1	1.1	1.5	2.8	1.1	1.7	1.7	1.7
26	1.1	1.1	1.1	1.4	1.5	1.3	1.7	1.8	1.7
27	1.1	1.2	1.1	1.4	1.6	1.3	1.8	1.9	1.8
28	1.1	1.2	1.1	1.5	2.5	1.4	1.9	2.0	1.8
29	1.1	1.1	1.1				2.0	2.0	2.0
30	1.1	1.1	1.1				2.0	2.3	1.9
31	1.1	1.1	1.1				2.3	2.4	2.2
SFD		30.2			33.4			52.9	
Ac. Ft.		59.9			66.2			104.9	
Mean		1.0			1.2			1.7	
Max.		1.1			1.5			2.3	
Min.		0.8			1.1			1.4	

COLORADO PRINTING CO GRAND JUNCTION COLO

Table 1.2.1.8-5

CB-TRACT
MOBIL WELL LEVELS

			WELL ID - FT FROM GROUND LEVEL				
			MW01	MW02	MW03	MW12	MW13
YR	MO	DY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	6	1				6305.6680	
		2				6305.6680	
		3				6305.6680	
		4				6305.6680	
		5				6305.6680	
		6				6305.6680	
		7				6305.6680	
		8				6305.6680	
		9				6305.6680	
		10	6303.9000	6146.5000	6250.8000	6310.3828	6303.2969
		11				6310.3477	
		12				6310.3828	
		13				6310.3359	
		14				6310.2539	
		15				6310.1328	
		16				6310.1328	
		17				6310.2188	
		18				6310.1797	
		19				6319.7188	
		20				6319.7188	
		21				6319.7188	
		22				6319.7188	
		23				6319.7188	
		24				6319.7188	
		25				6319.7188	
		26				6319.7188	
		27				6319.7188	
		28				6319.7188	
		29				6319.7188	
		30				6319.7188	
	7	1				6319.7266	
		2				6319.7266	
		3				6319.7031	
		4				6319.7031	
		5				6319.7188	
		6				6319.7188	
		7				6319.7188	
		8				6320.1250	
		9				6320.2188	
		10				6320.2188	
		11				6320.2188	
		12				6320.2188	
		13				6320.2188	
		14				6320.2188	
		15	6303.4000	6146.5000	6250.6000	6317.5391	6302.5000
		16				6317.5391	
		17				6317.5391	

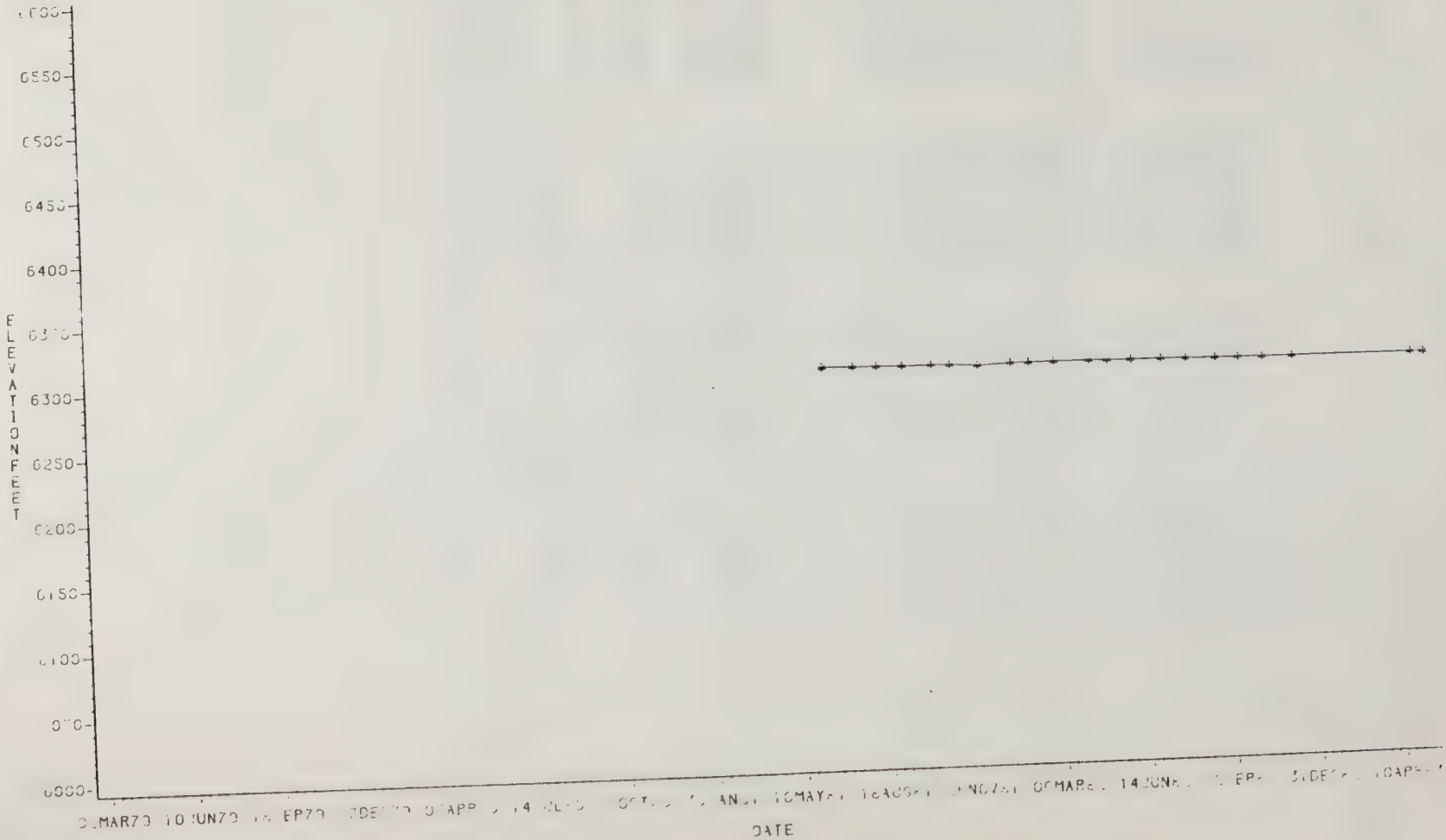
Table 1.2.1.8-5 (Contd)

CB-TRACT
MOBIL WELL LEVELS

			WELL ID - FT FROM GROUND LEVEL				
			Mw01	MW02	MW03	MW12	MW13
YR	MO	DY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	7	18				6317.5391	
		19				6317.5234	
	8	12	6303.0000	6146.1000	6250.7000	6301.5000	6301.6953
	9	10	6302.5000	6146.4000	6250.5000	6301.0977	6300.8945
	10	14	6302.3000	6146.6000	6250.7000	6301.0000	6300.5000
	11	4	6302.0000	6146.2000	6250.5000	6301.5000	6300.3945
	12	6	6301.9000	6145.9000	6250.5000	6301.7969	6300.3945
82	1	13	6302.0000	6145.6000	6250.5000	6302.1953	6300.5000
	2	3	6302.2000	6145.9000	6250.8000	6302.5000	6300.5977
	3	4	6302.1000	6146.0000	6250.7000	6302.5977	6300.5000
	4	14	6302.1000	6145.2000	6250.1000	6302.5977	6300.2969
	5	5	6301.8000	6145.8000	6250.5000	6302.5000	6300.1953
	6	2	6301.8000	6146.2000	6250.3000	6302.5977	*********
	7	7	6301.5000	6147.0000	6250 6000	6302.5000	6300.0000
	8	3				6302.3984	6299.8984
		4		6146.6000	6250.6000		
		5	6301.1000				
	9	7					6299.5977
		8	6301.0000	6146.1000	6250.6000	6302.0977	
	10	6	6300.9000	6145.6000	6250.4000	6302.0000	6299.5000
	11	3	6300.6000	6145.6000	6250.9000	6301.1992	6299.1992
	12	7					6299.1992
		8	6300.4000	6145.5000	6250.9000	6301.0977	
83	1	4				6301.0000	6298.8984
		5	6300.3984	6145.5000	6250.0977		
	2	9	6300.3984	6145.5977	6250.3984	6301.5000	6298.7969
	3	2				6301.7969	6298.6992
	4	27	6300.0469	6145.3984	6253.1992	6301.0977	6298.3477
	5	12	6299.9297	6146.8984	6253.0000	6301.0000	6298.1992

WATER LEVEL PLOTS IN MOBIL WELLS

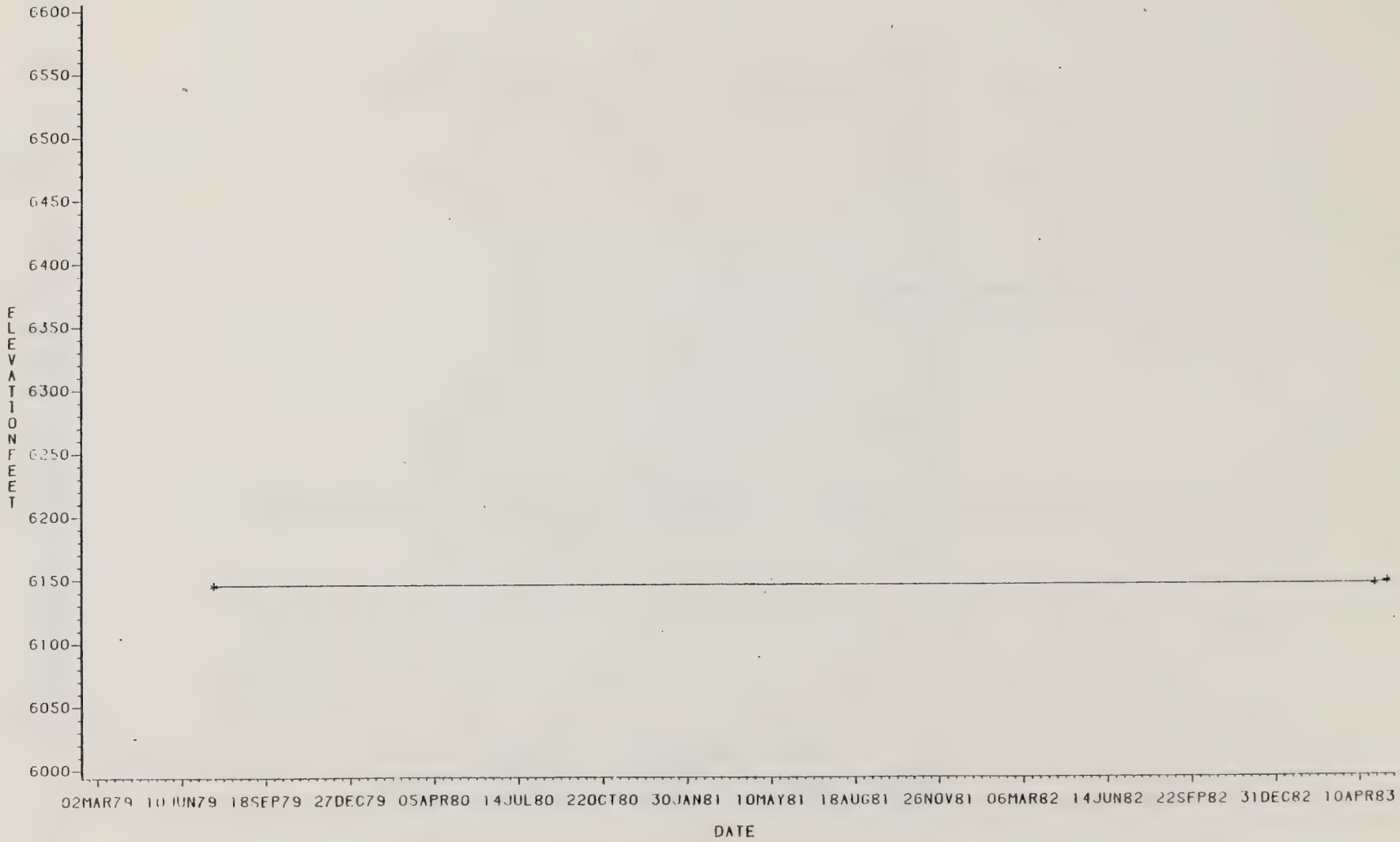
REQUIRED BY WATER AUGMENTATION PLAN
COC-MW01



WATER LEVEL PLOTS IN MOBIL WELLS

REQUIRED BY WATER AUGMENTATION PLAN

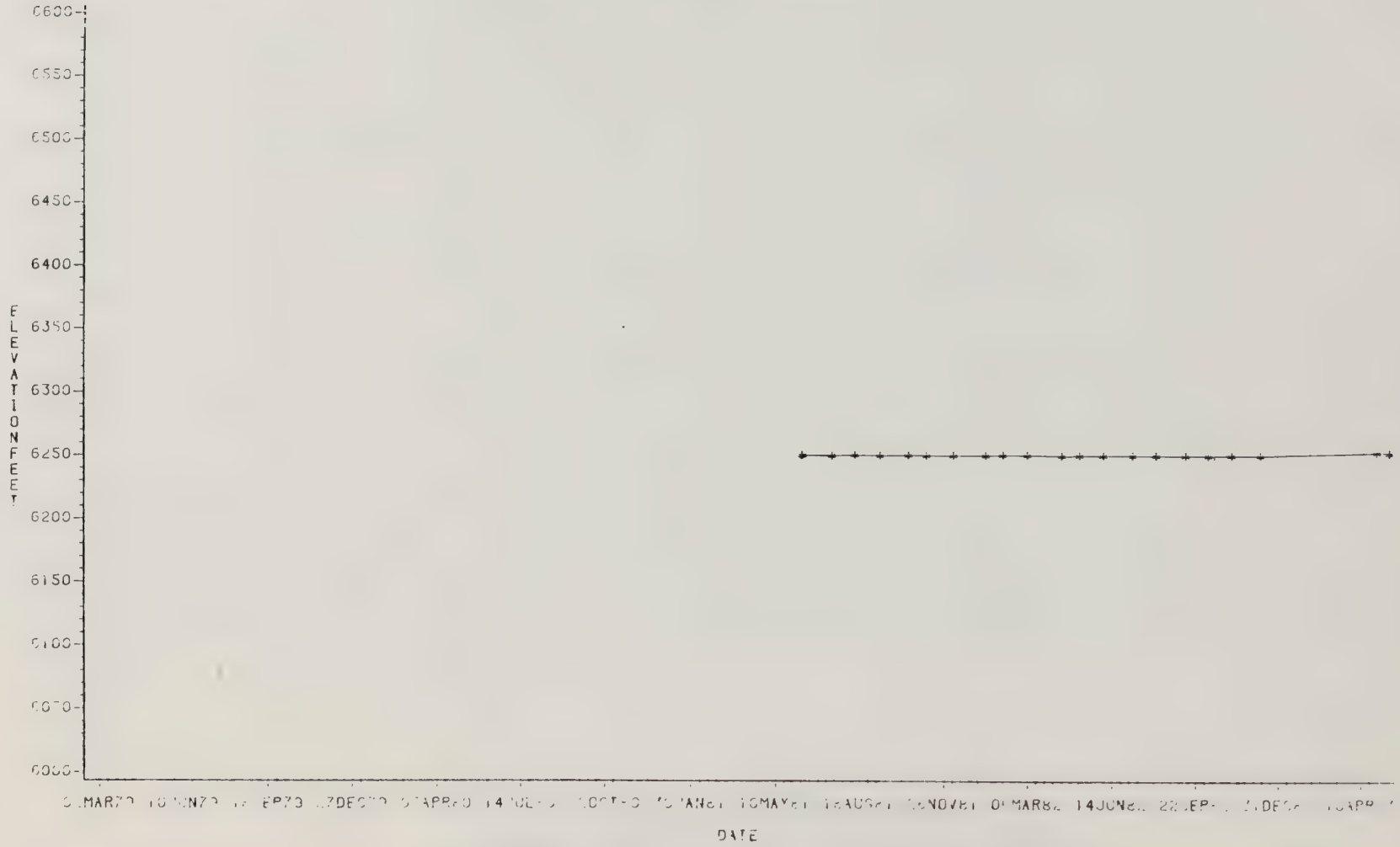
LOC=MW02



WATER LEVEL PLOTS IN MOBIL WELLS

REQUIRED BY WATER AUGMENTATION PLAN

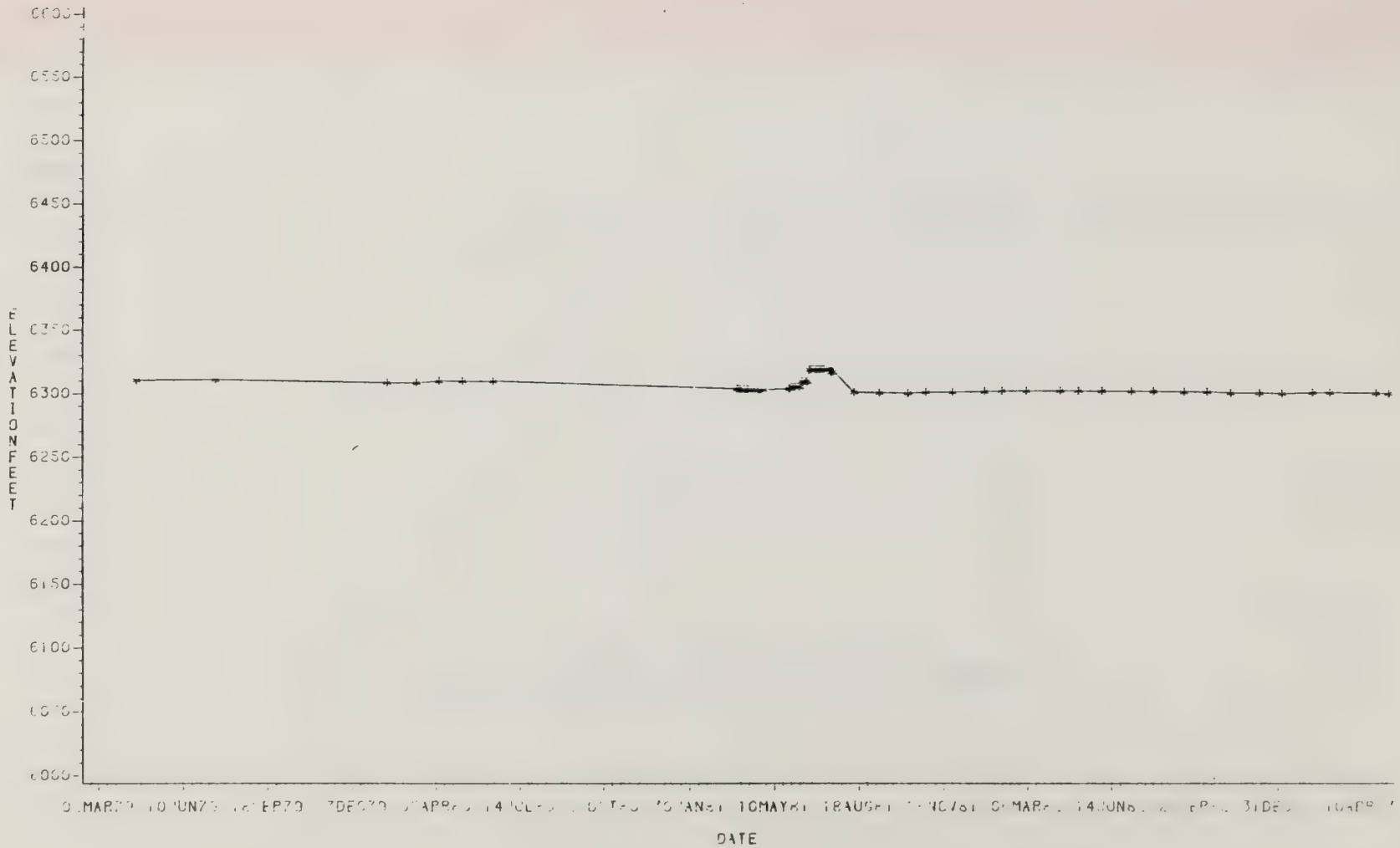
LOC=MW03



WATER LEVEL PLOTS IN MOBIL WELLS

REQUIRED BY WATER AUGMENTATION PLAN

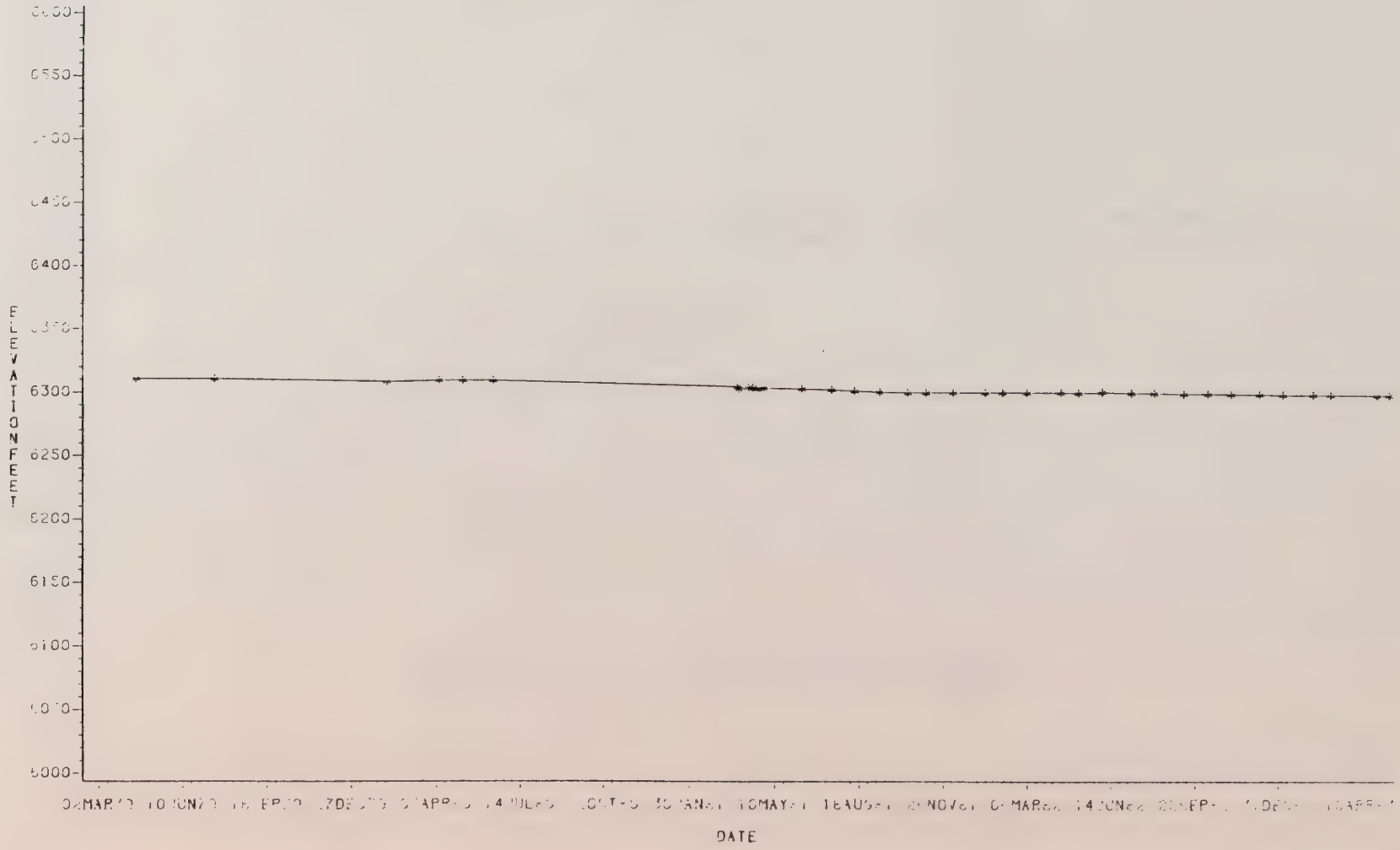
LOCATION



WATER LEVEL PLOTS IN MOBIL WELLS

REQUIRED BY WATER AUGMENTATION PLAN

[illegible]MW13



WATER QUALITY

1.2.2 Water Quality

Water samples taken at USGS surface streams, springs and seeps, alluvial and bedrock wells, seepage wells, discharge points, shafts and shale dumps, were analyzed for various variables depending on the monitoring and reporting requirements of these water stations. Requirements for the Interim Monitoring Plan (IMP), the Water Augmentation Plan (WAP), and the National Pollutant Discharge Elimination System (NPDES) documents are identified within each subsection. Data tables are presented in these subsections for water samples taken in January through May 1983.

1.2.2.1 Surface Streams

Water samples were collected from 8 USGS stream gaging stations along Piceance Creek. Refer to Figure 1.2.1.1-1 in Surface Streams subsection of the Levels and Flows Section 1.2.1 for station locations. Field data reported in this section are for 1982 water year (October 1981 - September 1982). Field data for 1983 water year will not be in the WATSTOR data base until Spring 1984. Data will be reported in the July 15, 1984 Environmental Monitoring Report. Lab analyses for water samples of 1983 water year (October 1982 - May 1983) are included in this section. Table 1.2.2.1-1 describes parameters sampled with corresponding page number of data tables for 12 gaging stations. Only 8 of these are required during the Interim Monitoring Program; 007, 022, 036, 039, 042, 052, 058 and 061.

Remark codes used in the data tables are defined in Table 1.2.2.1-2.

TABLE 1.2.2.1-1

USGS GAGING STATION SURFACE WATER DATA

Stations	Daily Discharge (Flow)	Daily Mean Sediment & Discharge Data	Daily Dissolved Oxygen	Daily pH Readings	Daily Specific Conductance	Daily Temperature	Water Quality Data
09304800*(WU48)	I-195				I-201	I-195	I-315
09306007*(WU07)	I-207		I-213	I-216	I-210	I-204	I-321
09306022*(WU22)	I-222		I-228	I-231	I-225	I-219	I-327
09306036 (WU36)	I-234	I-237					I-333
09306039 (WU39)	I-239						I-339
09306042 (WU42)	I-246				I-249	I-243	I-345
09306052 (WU52)	I-252						I-351
09306058*(WU58)	I-258		I-264	I-267	I-261	I-255	I-357
09306061*(WU61)	I-273		I-279	I-282	I-276	I-270	I-363
09306200*(WU00)	I-288				I-291	I-285	I-369
09306222*(WU62)	I-297				I-300	I-294	I-375
09306255*(WU55)	I-306	I-312			I-309	I-303	

* Major Station

Data were not available in WATSTOR data base for gaging stations showing blanks in parameter columns.

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
2	12.5	10.0	11.5	5.0	2.0	4.5	.0	.0	.0	.0	.0	.0
3	13.0	10.0	11.0	6.0	2.0	4.0	.5	.0	.0	.0	.0	.0
4	11.0	9.5	10.5	6.5	2.5	4.5	.5	.0	.0	.0	.0	.0
5	11.0	8.5	9.5	6.0	2.5	4.5	2.0	.0	.5	.0	.0	.0
6	12.5	7.0	10.0	6.5	3.0	5.0	2.5	.0	1.0	.0	.0	.0
7	13.0	8.5	10.5	7.0	4.5	6.0	2.5	.0	1.0	.0	.0	.0
8	11.0	9.0	10.0	6.5	3.5	5.0	2.5	.0	1.0	.0	.0	.0
9	10.5	7.5	9.0	6.0	2.5	3.5	2.5	.0	1.0	.0	.0	.0
10	11.5	7.5	9.5	5.0	2.0	4.0	3.0	.5	1.5	.0	.0	.0
11	10.0	8.0	9.0	5.0	1.5	3.0	4.0	.5	2.0	.0	.0	.0
12	10.0	6.5	8.0	5.0	1.5	3.0	3.0	.5	1.5	.0	.0	.0
13	10.5	7.0	9.0	6.0	2.5	4.0	2.5	1.0	2.0	.0	.0	.0
14	10.5	8.0	9.0	6.0	4.0	5.0	1.5	.5	1.0	.0	.0	.0
15	9.5	7.5	8.5	7.0	4.5	5.5	3.5	1.0	2.0	.0	.0	.0
16	---	---	---	7.0	4.0	5.5	1.5	.0	.5	.0	.0	.0
17	---	---	---	5.5	3.0	4.5	.5	.0	.0	.0	.0	.0
18	---	---	---	4.0	1.0	3.0	.0	.0	.0	.0	.0	.0
19	---	---	---	2.5	.0	1.0	1.0	.0	.0	.0	.0	.0
20	---	---	---	.5	.0	.0	4.0	.5	2.0	.0	.0	.0
21	---	---	---	2.0	.0	1.0	3.0	.5	2.0	.0	.0	.0
22	---	---	---	4.0	1.5	2.5	1.5	.0	.5	.0	.0	.0
23	---	---	---	5.0	3.0	3.5	.0	.0	.0	.0	.0	.0
24	---	---	---	5.5	2.5	4.0	.0	.0	.0	.0	.0	.0
25	---	---	---	4.0	1.0	3.5	.0	.0	.0	.0	.0	.0
26	---	---	---	1.0	.0	.0	.0	.0	.0	.0	.0	.0
27	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	---	---	---	.0	.0	.0	.0	.0	.0	1.0	.0	.0
30	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	13.0	6.5	9.5	7.0	.0	3.0	4.0	.0	.5	1.0	.0	.0

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	5.0	2.5	4.0	7.5	4.5	6.0	10.5	8.5	9.5
2	.0	.0	.0	7.5	3.5	5.0	7.5	2.5	4.5	10.5	7.5	9.0
3	.0	.0	.0	5.5	3.0	4.0	8.5	2.5	5.5	10.0	8.0	9.5
4	.0	.0	.0	6.0	1.0	3.0	9.0	4.0	6.0	9.5	6.0	7.5
5	.0	.0	.0	5.0	2.0	3.5	7.5	1.5	5.0	8.0	4.5	6.5
6	.0	.0	.0	5.0	.5	2.5	7.5	4.0	6.0	8.5	4.5	6.5
7	.0	.0	.0	4.0	1.5	3.0	5.5	2.0	4.0	8.5	5.5	7.0
8	.0	.0	.0	4.5	1.0	2.5	5.5	.0	3.0	10.5	7.0	8.5
9	.0	.0	.0	7.0	1.5	4.0	8.0	1.5	4.5	9.5	7.5	8.5
10	.0	.0	.0	6.5	3.5	5.0	9.0	2.0	6.0	9.5	7.0	8.0
11	.0	.0	.0	7.0	3.5	5.5	12.0	5.5	9.0	8.5	6.5	7.5
12	.0	.0	.0	8.5	4.5	6.5	10.0	7.0	9.0	7.0	4.5	6.0
13	.0	.0	.0	8.5	2.5	5.5	11.0	5.5	8.5	6.0	4.0	5.0
14	.0	.0	.0	7.5	3.5	6.0	12.0	6.5	9.5	8.5	4.5	6.5
15	.0	.0	.0	8.0	5.0	6.0	10.5	6.5	8.5	10.0	6.5	8.5
16	.0	.0	.0	7.5	4.5	6.0	9.5	5.0	7.0	11.0	8.5	9.5
17	.0	.0	.0	8.5	3.0	5.5	10.0	3.5	7.0	12.0	8.0	10.0
18	1.0	.0	.0	9.0	4.0	6.0	10.5	5.5	8.0	12.0	8.5	10.0
19	.0	.0	.0	6.0	1.5	4.5	6.5	3.0	5.0	11.0	9.0	10.0
20	.0	.0	.0	4.5	.5	2.5	5.0	1.5	3.0	10.5	8.0	9.0
21	.0	.0	.0	3.5	.0	2.0	7.5	.0	4.5	---	---	---
22	.0	.0	.0	5.5	.0	2.5	10.5	3.5	7.5	---	---	---
23	4.0	.0	1.5	7.0	.5	4.0	10.0	6.0	8.0	---	---	---
24	5.0	1.0	3.0	8.0	2.0	5.0	12.0	6.0	9.0	---	---	---
25	6.0	1.0	3.5	9.0	3.0	6.0	12.0	7.5	9.5	---	---	---
26	4.0	1.0	2.5	6.5	5.0	5.5	9.5	7.0	8.0	---	---	---
27	5.5	2.0	3.5	8.0	5.0	6.5	10.0	6.5	8.0	---	---	---
28	7.5	2.5	4.5	9.5	5.0	7.5	12.0	6.0	9.0	---	---	---
29	---	---	---	6.5	2.0	4.5	10.0	7.5	8.5	---	---	---
30	---	---	---	4.5	1.0	2.5	11.0	5.5	8.5	---	---	---
31	---	---	---	7.5	.5	4.0	---	---	---	12.0	7.0	9.5
MONTH	7.5	.0	.5	9.5	.0	4.5	12.0	.0	7.0	12.0	4.0	8.0

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.0	9.0	10.0	15.5	12.5	14.0	20.5	15.0	18.0	14.5	10.0	12.5
2	11.0	8.0	9.5	14.5	11.0	12.5	18.5	16.0	17.5	18.0	12.0	15.0
3	12.0	8.5	10.0	15.5	11.0	13.5	19.0	14.0	16.5	15.0	11.5	13.0
4	12.0	8.0	10.0	15.5	11.5	13.5	20.0	15.0	17.5	---	---	---
5	11.5	8.5	10.0	14.0	11.0	12.5	21.0	15.0	18.5	---	---	---
6	10.5	8.0	9.0	15.5	10.0	12.5	21.5	15.5	18.5	---	---	---
7	11.5	7.5	9.5	16.0	11.0	13.5	21.5	15.5	18.5	---	---	---
8	11.0	8.5	10.0	15.0	12.5	13.5	18.5	15.5	17.0	---	---	---
9	11.5	8.0	9.5	15.0	11.5	13.5	20.5	15.5	18.0	---	---	---
10	11.0	8.5	10.0	17.0	11.0	14.0	19.5	15.5	17.5	---	---	---
11	13.5	9.0	11.0	17.0	13.0	15.0	17.5	14.5	16.0	---	---	---
12	12.0	9.5	10.5	18.0	12.5	15.5	16.5	14.0	15.0	---	---	---
13	12.0	9.0	10.5	16.0	13.5	15.0	15.5	13.5	14.5	---	---	---
14	11.5	8.5	10.0	18.0	12.5	15.0	19.5	14.0	16.5	---	---	---
15	11.0	9.0	10.0	18.0	13.0	15.5	20.5	15.0	18.0	---	---	---
16	14.0	8.5	11.5	18.0	12.5	15.5	20.0	16.0	18.5	14.5	11.5	13.5
17	14.5	10.5	12.5	17.5	14.0	16.0	19.0	16.0	17.5	15.5	12.0	13.5
18	13.0	10.5	11.5	19.0	13.5	16.5	20.5	16.5	18.5	14.5	10.5	13.0
19	13.0	9.5	11.0	19.5	14.0	17.0	21.0	15.5	18.0	13.5	10.5	12.5
20	14.0	10.0	12.0	20.0	14.0	17.0	20.0	16.0	18.5	14.5	10.5	12.5
21	12.5	10.0	11.5	19.0	14.0	16.0	21.0	16.5	18.0	15.0	11.0	13.0
22	11.5	10.5	11.0	20.5	14.5	17.0	20.5	17.5	19.0	---	---	---
23	12.5	9.5	11.0	21.0	16.0	18.5	20.0	15.5	17.5	---	---	---
24	14.5	9.5	12.0	20.5	16.5	18.5	20.5	13.5	16.5	---	---	---
25	13.0	11.0	11.5	18.5	16.0	17.0	15.0	10.0	11.5	---	---	---
26	14.0	9.5	12.0	19.5	17.5	18.5	15.0	10.0	13.0	---	---	---
27	15.5	10.5	13.0	19.5	15.5	17.5	14.5	10.0	12.5	---	---	---
28	16.0	12.0	14.0	18.0	15.0	16.5	15.0	10.0	12.0	---	---	---
29	15.0	12.0	13.5	17.5	13.5	15.5	13.5	10.5	12.0	---	---	---
30	15.0	12.5	13.5	20.0	14.5	17.5	14.5	10.0	12.0	---	---	---
31	---	---	---	20.5	14.5	18.0	15.0	10.0	12.0	---	---	---
MONTH	16.0	7.5	11.0	21.0	10.0	15.5	21.5	10.0	16.5	18.0	10.0	13.0
YEAR	21.5	.0	7.0									

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			300			370			350			341
2			308			380			340			336
3			335			380			365			322
4			415			385			335			254
5			485			381			340			305
6			421			376			313			352
7			386			371			326			412
8			396			371			322			212
9			479			356			313			243
10			416			341			327			373
11			407			336			322			388
12			444			337			314			378
13			432			347			314			354
14			427			337			314			329
15			433			332			323			349
16			616			332			323			359
17			475			328			315			370
18			428			353			280			355
19			403			353			311			350
20			393			319			354			336
21			383			358			364			347
22			378			348			334			311
23			363			353			302			269
24			359			359			245			360
25			379			359			273			350
26			364			334			330			360
27			369			320			330			315
28			354			359			317			296
29			364			349			299			333
30			420			349			336			289
31			375						351			325
MONTH			403			352			322			331

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			299			385			377			1010
2			285			442			367			1200
3			314			448			332			1400
4			237			389			362			1720
5			248			347			357			1640
6			294			331			367			1400
7			250			321			362			1270
8			300			306			323			1250
9			270			342			343			1360
10			350			341			338			1440
11			320			345			358			1380
12			300			389			452			1340
13			335			352			494			1420
14			380			361			518			1270
15			380			375			590			1170
16			390			374			597			1120
17			380			382			562			1140
18			380			366			597			1210
19			380			355			619			1370
20			380			340			570			1430
21			380			299			531			1410
22			380			294			531			1590
23			380			326			598			1810
24			370			341			627			1890
25			365			322			725			1740
26			360			346			870			1930
27			390			361			816			2370
28			390			356			795			2550
29						381			886			2410
30						366			854			2370
31						309						2140
MONTH			339			355			537			1570

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			1910			1980			617			445
2			1870			1900			653			422
3			1780			1680			759			407
4			1790			1590			676			411
5			1810			1510			607			533
6			1960			1460			552			497
7			1730			1290			546			430
8			1910			1190			547			430
9			1780			1260			597			435
10			1930			1240			556			435
11			1760			1120			563			518
12			1670			1090			634			547
13			2020			1010			656			623
14			2030			1000			657			616
15			1980			952			595			608
16			1670			857			517			615
17			1870			843			536			572
18			2030			828			626			520
19			1890			801			564			520
20			1930			760			527			519
21			1750			747			533			507
22			1920			720			510			494
23			1830			693			499			500
24			1710			666			494			493
25			1770			730			494			487
26			1540			689			519			528
27			1660			697			520			573
28			1310			782			501			607
29			2080			864			477			628
30			1920			714			482			641
31						645			476			
MONTH			1830			1040			564			519
YEAR	---	---	682									

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	577	542	555	565	553	559
2	697	640	668	620	591	601	593	541	570	574	553	559
3	721	637	674	646	604	627	631	585	609	583	573	577
4	727	632	668	659	610	635	604	585	595	604	581	592
5	726	649	690	670	614	639	613	576	590	607	580	595
6	645	603	621	670	610	630	582	575	578	579	564	571
7	610	584	595	646	614	630	593	576	580	614	571	589
8	638	572	596	627	600	616	586	577	580	644	618	636
9	635	574	604	634	597	623	584	573	579	646	624	636
10	578	560	571	634	608	625	586	575	580	625	588	605
11	572	546	560	644	584	614	605	575	590	589	561	571
12	602	539	569	644	585	610	579	573	575	564	554	559
13	567	538	556	634	575	609	576	570	573	566	559	562
14	565	512	551	608	576	594	574	567	571	580	565	567
15	573	538	552	609	582	595	575	565	570	572	556	566
16	620	556	594	597	570	586	566	554	562	563	548	556
17	---	---	---	600	572	585	565	548	559	558	541	552
18	---	---	---	589	560	576	603	565	575	554	540	547
19	---	---	---	584	560	573	624	564	592	554	544	549
20	---	---	---	630	584	605	564	556	560	590	569	572
21	---	---	---	649	568	610	574	550	563	571	565	568
22	---	---	---	596	562	575	571	553	559	582	560	570
23	---	---	---	604	583	590	615	572	584	590	561	580
24	---	---	---	636	601	620	647	621	629	597	559	584
25	---	---	---	647	607	620	671	614	641	596	549	569
26	---	---	---	610	571	590	614	596	602	596	570	580
27	---	---	---	627	600	618	604	574	588	598	550	570
28	---	---	---	646	546	600	594	578	583	580	512	542
29	---	---	---	587	568	575	607	590	598	595	543	562
30	---	---	---	573	519	550	589	559	574	577	540	554
31	---	---	---	---	---	---	563	555	558	595	553	567
MONTH	727	512	605	670	519	604	671	541	581	646	512	573

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	563	540	550	700	682	690	639	606	615	400	304	361
2	569	552	561	719	697	713	608	578	596	352	292	310
3	582	561	570	729	711	722	621	591	605	291	276	283
4	606	589	597	717	695	707	623	583	597	307	282	291
5	648	612	633	713	693	703	603	557	580	320	290	302
6	677	655	665	705	678	694	624	594	611	331	315	325
7	691	666	680	695	677	688	615	586	600	344	330	337
8	674	608	630	688	672	681	660	593	603	352	342	345
9	612	592	600	691	674	683	668	600	643	357	329	339
10	616	581	595	706	675	694	643	607	624	353	333	338
11	586	568	574	710	700	706	643	593	612	342	322	327
12	593	570	578	728	704	717	613	570	587	373	337	349
13	595	572	582	715	689	700	594	570	582	460	291	345
14	590	559	570	690	678	683	578	525	550	346	323	337
15	566	549	558	677	668	672	524	475	500	427	319	343
16	567	561	564	679	673	676	490	466	475	402	359	368
17	597	562	570	671	660	665	493	478	486	374	354	361
18	585	554	574	687	665	680	496	472	480	371	276	344
19	608	595	598	704	660	690	475	461	465	373	336	345
20	617	609	612	699	663	673	491	464	472	351	337	340
21	621	613	616	708	644	666	505	477	485	---	---	---
22	625	604	619	714	608	671	511	477	490	---	---	---
23	627	612	622	700	618	653	493	459	475	---	---	---
24	655	622	639	686	599	635	474	450	462	---	---	---
25	672	657	663	669	600	631	463	420	445	---	---	---
26	688	657	669	667	610	637	423	397	407	---	---	---
27	701	661	675	692	650	661	413	397	405	---	---	---
28	689	670	680	694	651	671	426	411	418	---	---	---
29	---	---	---	675	640	655	425	385	400	---	---	---
30	---	---	---	643	605	618	405	385	395	---	---	---
31	---	---	---	649	599	622	---	---	---	269	255	262
MONTH	701	540	609	729	599	676	668	385	522	460	255	331

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	295	277	285	305	291	299	478	462	470	562	530	545
2	296	278	284	310	294	302	480	463	470	---	---	---
3	298	291	294	326	308	315	529	476	504	---	---	---
4	306	294	301	337	323	329	496	478	485	---	---	---
5	304	277	289	346	335	341	508	480	495	---	---	---
6	290	273	279	360	352	355	533	475	500	---	---	---
7	304	291	296	373	359	365	491	472	480	---	---	---
8	304	285	292	386	376	382	486	471	481	---	---	---
9	306	292	298	405	382	395	494	464	475	---	---	---
10	312	294	301	395	382	388	505	477	489	---	---	---
11	318	309	312	406	396	400	542	497	516	---	---	---
12	318	303	308	413	402	407	558	532	543	---	---	---
13	308	299	302	429	410	423	553	508	533	---	---	---
14	304	293	298	430	414	421	535	504	520	---	---	---
15	308	299	302	423	407	418	532	512	523	---	---	---
16	324	308	316	431	402	420	537	517	525	548	512	526
17	325	300	306	432	414	424	535	510	525	529	506	519
18	305	290	297	425	389	409	529	494	510	532	510	524
19	308	297	302	412	388	403	506	482	500	539	525	532
20	307	299	303	431	410	425	510	492	500	584	522	535
21	309	296	302	444	420	430	509	482	495	548	519	529
22	312	295	304	473	413	445	514	493	510	535	523	528
23	317	307	310	472	458	470	539	490	525	---	---	---
24	319	313	317	470	459	465	515	495	505	---	---	---
25	319	304	310	468	457	460	545	519	536	---	---	---
26	316	305	309	486	468	475	552	526	543	---	---	---
27	309	294	302	482	468	475	548	507	532	---	---	---
28	308	289	296	504	450	485	534	509	523	---	---	---
29	299	278	286	496	447	470	541	512	528	---	---	---
30	292	279	285	467	455	460	536	514	526	---	---	---
31	---	---	---	474	461	465	549	521	536	---	---	---
MONTH	325	273	300	504	291	410	558	462	510	584	506	530
YEAR	729	255	521									

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	7.0	11.0	8.5	2.5	5.0	.5	.0	.0	4.0	.0	2.0
2	12.0	9.5	10.5	9.5	3.5	6.0	3.5	.0	1.5	.0	.0	.0
3	13.5	10.0	11.0	9.5	3.5	6.5	3.5	.0	1.5	.0	.0	.0
4	11.0	9.0	10.0	10.0	3.5	6.5	4.0	.0	2.0	.0	.0	.0
5	12.0	8.5	10.0	8.5	3.5	6.5	5.0	2.0	3.0	2.0	.0	1.0
6	14.0	7.0	10.5	9.0	4.0	6.5	4.5	.5	2.5	1.0	.0	.5
7	14.0	7.5	11.0	9.0	6.0	7.0	5.0	1.0	3.0	---	---	---
8	10.5	9.5	10.0	8.0	4.0	6.0	5.0	1.0	3.0	.0	.0	.0
9	12.5	8.0	10.0	8.5	3.0	5.5	4.5	.5	2.5	.0	.0	.0
10	13.0	7.5	10.0	8.0	2.5	5.0	5.5	1.5	3.5	.0	.0	.0
11	10.5	8.0	9.5	8.0	2.5	5.0	5.5	2.0	4.0	.5	.0	.0
12	12.0	7.0	9.5	7.5	2.5	5.0	5.0	1.5	3.5	.5	.0	.0
13	12.5	7.0	10.0	8.5	4.0	6.0	4.0	2.5	3.0	.5	.0	.0
14	11.5	8.0	9.5	8.5	5.0	6.5	4.0	1.0	2.5	1.0	.0	.5
15	9.5	7.0	8.5	9.0	5.0	6.5	5.0	2.5	3.5	.5	.0	.0
16	10.0	6.0	8.0	8.5	4.0	6.5	3.0	.0	1.5	3.0	.0	1.5
17	11.5	7.0	9.0	7.5	3.5	5.5	2.0	.0	.5	3.5	.5	2.0
18	12.5	5.5	8.5	5.5	3.5	4.5	.5	.0	.0	4.0	.5	3.0
19	12.0	5.0	8.0	5.0	1.5	3.0	5.0	.5	3.0	3.5	.0	2.0
20	11.5	5.0	8.5	5.0	.5	3.0	5.5	2.5	4.0	3.0	.0	1.5
21	11.5	5.0	8.0	5.5	2.0	4.0	4.0	2.0	3.0	---	---	---
22	10.5	4.5	8.0	7.0	3.5	5.5	2.5	.0	1.5	---	---	---
23	10.0	4.0	7.0	7.5	4.5	6.0	.0	.0	.0	---	---	---
24	7.0	5.5	6.5	7.5	3.5	5.5	.0	.0	.0	---	---	---
25	10.0	5.0	7.5	5.0	1.0	3.0	.5	.0	.0	5.0	1.0	3.0
26	10.0	4.5	7.0	1.5	.0	.5	.5	.0	.0	4.5	.0	2.5
27	10.5	5.5	8.0	3.0	.0	1.5	.5	.0	.0	3.5	.0	1.0
28	9.5	5.5	7.5	3.5	.0	2.0	.0	.0	.0	3.5	.0	2.0
29	9.5	4.5	7.5	3.0	1.0	2.0	.5	.0	.0	.5	.0	.0
30	6.5	3.5	5.0	3.0	.5	2.0	3.0	.0	1.0	2.5	.0	.5
31	7.0	1.5	4.0	---	---	---	2.5	.0	1.5	3.0	.0	1.0
MONTH	15.0	1.5	8.5	10.0	.0	5.0	5.5	.0	2.0	5.0	.0	1.0

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.0	.5	7.0	1.5	4.5	11.5	4.0	6.5	15.0	6.5	10.5
2	.5	.0	.0	10.5	4.5	6.5	9.5	1.0	5.0	17.0	6.0	11.0
3	.0	.0	.0	6.0	2.5	3.5	13.5	1.0	7.0	17.5	4.0	11.5
4	.0	.0	.0	7.5	1.0	4.0	12.0	3.0	7.0	11.5	7.5	9.5
5	.0	.0	.0	6.5	1.5	3.0	11.5	.0	5.5	14.0	4.5	8.0
6	.0	.0	.0	7.0	.0	3.0	10.0	3.5	6.5	16.0	2.0	8.5
7	.0	.0	.0	9.5	1.5	4.5	5.0	.5	3.5	13.0	3.0	8.0
8	.0	.0	.0	7.0	1.0	4.0	8.0	.0	3.0	16.0	6.5	10.0
9	.5	.0	.0	8.5	1.0	4.5	12.5	.0	5.0	16.0	5.5	9.0
10	.5	.0	.0	7.5	2.5	5.0	14.5	.5	7.0	14.0	5.0	9.0
11	.5	.0	.0	8.5	3.5	6.0	14.5	4.0	9.0	12.5	5.5	8.5
12	.5	.0	.0	9.5	3.5	6.0	12.0	3.5	8.5	6.5	2.0	4.5
13	5.0	.0	2.5	11.5	.5	5.5	17.0	4.5	10.0	11.5	2.5	6.5
14	6.0	2.0	4.0	8.0	1.5	5.0	16.0	4.0	10.0	14.0	5.5	9.0
15	5.5	2.0	3.5	8.0	3.5	5.5	11.5	4.0	8.0	14.5	4.5	10.0
16	7.5	1.5	4.0	9.0	3.0	5.5	13.0	2.5	7.5	17.5	5.5	11.0
17	6.5	.0	3.0	12.5	2.0	6.5	15.0	1.0	7.5	16.5	6.0	11.0
18	---	---	---	10.5	3.0	6.5	11.0	2.5	7.0	17.0	6.5	11.5
19	---	---	---	6.0	2.0	4.0	10.5	1.0	5.5	13.5	7.0	10.0
20	8.0	.0	3.5	7.5	1.0	3.5	8.0	.0	4.0	18.0	6.5	11.5
21	8.5	.5	4.0	5.5	.0	2.5	14.5	.0	6.0	20.5	5.0	12.0
22	8.0	.0	3.5	8.5	.0	3.5	17.0	1.0	8.5	17.0	6.0	11.5
23	7.5	2.5	4.0	12.0	.0	5.5	12.5	4.0	7.5	20.0	7.0	13.0
24	8.0	.5	4.0	12.5	.5	6.0	18.0	3.5	10.5	18.5	7.0	11.5
25	9.0	1.5	4.5	13.5	1.0	7.0	15.5	4.5	9.5	19.0	5.5	11.5
26	9.0	.0	4.0	7.5	4.5	6.0	15.5	5.0	8.5	22.0	6.5	13.5
27	8.0	2.0	4.5	10.5	4.5	7.0	16.5	5.5	9.5	20.5	8.0	13.0
28	10.5	.5	5.0	12.5	4.0	8.0	21.5	3.5	11.5	15.0	7.5	11.0
29	---	---	---	6.5	3.0	4.5	17.0	6.0	9.5	17.5	6.0	11.5
30	---	---	---	5.5	.5	2.5	17.0	2.5	9.5	13.5	7.5	10.0
31	---	---	---	12.5	.0	5.5	---	---	---	20.5	6.5	12.5
MONTH	10.5	.0	2.0	13.5	.0	5.0	21.5	.0	7.5	22.0	2.0	10.5

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	7.0	11.5	22.5	8.5	15.0	23.5	10.5	16.5	20.5	10.0	14.5
2	17.0	6.0	11.5	22.5	8.0	14.5	18.0	13.0	15.0	19.5	9.0	14.0
3	19.0	7.5	12.5	23.5	8.0	15.0	21.0	11.5	16.0	19.5	9.0	14.0
4	20.0	6.5	12.0	23.5	9.0	15.0	23.0	11.0	17.0	17.5	10.0	14.0
5	19.5	5.5	11.5	17.5	7.5	12.5	23.5	12.5	18.0	17.5	12.0	14.0
6	19.0	6.0	11.5	22.5	11.0	17.0	23.0	12.0	17.5	17.0	9.5	13.0
7	19.5	6.0	12.0	20.0	8.0	13.5	20.5	12.0	16.5	15.5	10.0	12.5
8	19.0	6.0	10.5	18.5	10.0	13.5	20.0	12.0	16.0	15.5	10.0	12.5
9	21.0	6.0	12.5	19.5	10.0	14.0	21.5	12.5	16.5	14.5	9.5	12.0
10	17.5	6.5	12.5	22.5	9.0	15.0	19.5	10.5	15.5	15.5	10.5	12.5
11	22.5	7.5	14.5	22.0	10.5	15.0	18.0	12.0	14.5	13.0	10.0	11.5
12	18.0	9.0	13.5	22.5	10.5	16.0	---	---	---	14.5	9.0	11.0
13	18.5	9.0	13.5	20.0	11.0	14.5	---	---	---	10.0	8.5	9.5
14	16.0	8.0	12.0	20.0	10.0	15.0	---	---	---	10.5	7.0	8.5
15	17.0	8.0	12.5	21.5	10.0	15.0	21.5	12.0	16.0	16.0	7.5	11.5
16	23.0	8.0	14.5	22.0	9.5	15.5	19.0	12.5	15.5	16.0	8.5	12.0
17	22.0	10.0	15.5	21.5	12.0	16.0	18.5	12.0	15.0	16.0	10.0	12.5
18	17.5	10.0	12.5	21.0	11.5	16.0	20.0	12.0	16.0	14.5	8.5	11.5
19	20.0	7.5	12.5	23.5	11.0	16.5	21.0	12.0	17.0	15.0	8.5	11.5
20	20.5	8.0	14.5	21.5	12.0	16.5	19.5	12.5	16.0	16.0	9.0	12.0
21	16.0	9.0	12.5	22.5	12.0	17.0	20.0	10.5	15.5	17.0	9.0	12.5
22	16.5	9.5	12.0	23.0	13.5	17.5	17.0	13.0	15.0	17.5	8.5	13.0
23	19.5	9.0	14.0	24.0	12.0	17.5	18.5	11.0	15.0	18.0	9.5	13.5
24	20.5	9.0	13.5	23.0	12.5	16.5	21.0	12.5	16.5	16.5	8.0	12.5
25	19.5	9.0	12.5	22.5	11.5	16.5	16.0	12.0	14.0	13.0	9.5	11.0
26	22.0	8.0	14.0	21.0	12.5	16.0	19.0	11.0	14.5	15.0	11.0	12.5
27	24.0	9.0	15.5	20.5	13.0	16.5	17.5	11.0	14.5	12.0	9.0	11.0
28	24.0	9.0	16.0	18.0	12.5	14.5	19.0	10.5	14.5	9.0	7.5	8.5
29	23.5	9.0	15.5	21.0	12.5	15.5	18.5	11.5	15.0	10.0	6.5	8.0
30	23.0	11.0	15.5	23.0	11.0	16.0	20.0	11.0	15.0	11.5	7.5	9.0
31	---	---	---	24.0	10.5	16.5	18.0	10.5	14.0	---	---	---
MONTH	24.0	5.5	13.0	24.0	7.5	15.5	23.5	10.5	15.5	20.5	6.5	12.0
YEAR	24.0	.0	8.0									

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			3.2			6.3			7.1			6.1
2			3.3			5.8			7.1			5.5
3			4.2			5.7			6.8			5.3
4			4.2			5.4			6.7			5.3
5			5.1			4.9			6.6			5.3
6			4.8			5.6			6.6			5.3
7			4.7			7.0			6.8			5.3
8			4.7			7.3			6.8			5.3
9			4.2			7.0			6.8			5.3
10			4.8			6.5			6.7			5.3
11			4.9			8.5			6.5			5.4
12			5.1			9.0			6.6			5.3
13			5.4			9.0			6.8			5.4
14			5.7			9.1			6.7			5.4
15			6.2			9.1			6.7			5.4
16			6.8			8.7			6.8			5.4
17			5.5			8.6			6.4			5.6
18			5.6			9.0			6.5			5.6
19			5.2			8.9			6.6			5.7
20			5.1			9.0			6.8			5.8
21			5.2			8.7			7.1			5.8
22			5.4			8.7			6.6			5.8
23			5.8			8.6			6.5			5.8
24			5.8			8.4			6.5			5.9
25			4.9			8.4			6.3			5.6
26			5.0			7.8			6.3			5.8
27			4.7			7.6			6.3			5.7
28			4.6			7.6			6.2			5.9
29			5.2			7.4			6.2			5.9
30			6.8			7.4			6.2			5.8
31			6.3						6.1			5.8
MONTH			5.1			7.7			6.6			5.6

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			5.9			8.2			11			5.5
2			6.0			10			11			6.2
3			5.8			16			9.9			9.5
4			5.8			13			9.9			16
5			5.8			12			9.3			20
6			5.8			9.5			10			16
7			5.8			10			9.5			10
8			5.8			9.6			8.6			8.4
9			5.8			9.1			8.6			6.9
10			5.8			9.2			8.8			7.3
11			5.8			8.8			9.3			7.2
12			5.7			13			9.5			11
13			5.7			15			9.6			21
14			5.6			18			8.3			24
15			5.7			22			11			18
16			5.8			18			12			15
17			6.1			13			8.9			13
18			6.3			14			8.7			12
19			6.6			13			7.6			15
20			7.6			12			6.8			16
21			9.1			9.9			5.6			14
22			11			9.4			4.8			14
23			12			8.4			4.7			13
24			8.9			8.1			5.2			11
25			8.7			7.7			5.3			9.2
26			8.5			8.3			4.2			12
27			8.4			8.7			2.8			16
28			8.2			9.3			2.4			8.8
29						11			1.9			7.0
30						9.3			3.4			9.4
31						8.6						9.5
MONTH			6.9			11			7.6			12

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			7.4			3.1			4.2			10
2			7.0			2.8			6.4			10
3			7.1			1.5			6.1			9.8
4			4.8			1.3			7.9			9.7
5			4.0			1.6			8.9			10
6			7.4			2.2			10			13
7			6.5			2.8			11			12
8			5.7			3.9			11			12
9			6.5			4.9			11			12
10			6.7			4.9			13			12
11			7.8			5.6			16			13
12			7.7			5.8			29			13
13			7.2			5.7			16			13
14			8.9			6.0			13			14
15			7.8			7.0			12			13
16			6.7			6.1			12			12
17			6.3			5.0			12			12
18			4.8			4.7			15			12
19			3.4			4.3			12			12
20			5.5			5.1			12			12
21			5.4			4.2			11			12
22			4.3			3.9			12			12
23			4.1			3.4			12			11
24			3.1			3.6			11			10
25			2.5			4.1			11			11
26			2.7			4.7			12			12
27			2.5			5.4			11			12
28			2.2			5.3			11			12
29			2.7			4.7			11			13
30			2.4			4.3			11			13
31						4.0			11			
MONTH			5.4			4.3			12			12
YEAR	---	---	8.0									

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1270	1210	1240	1220	1190	1210	1150	1080	1110	1080	1050	1070
2	1270	1240	1250	1240	1200	1220	1110	1100	1100	1090	1060	1080
3	1250	1210	1230	1250	1230	1240	1110	1100	1100	1130	1060	1090
4	1260	1210	1240	1240	1220	1230	1130	1100	1100	1130	1070	1100
5	1250	1220	1230	1240	1220	1230	1100	1100	1100	1080	1040	1070
6	1240	1210	1230	1260	1200	1240	1100	1100	1100	1120	1070	1090
7	1240	1210	1220	1210	1190	1200	1100	1090	1100	---	---	---
8	1240	1180	1210	1210	1190	1200	1100	1090	1100	1180	1120	1140
9	1270	1210	1250	1210	1190	1200	1100	1090	1100	1150	1090	1130
10	1230	1210	1220	1220	1200	1210	1100	1090	1100	1120	1060	1100
11	1230	1180	1210	1220	1140	1180	1100	1090	1090	1100	1060	1080
12	1230	1180	1210	1160	1120	1140	1100	1090	1090	1090	1060	1080
13	1220	1180	1210	1140	1110	1130	1100	1080	1090	1100	1060	1090
14	1220	1190	1210	1140	1110	1130	1100	1090	1090	1120	1070	1090
15	1230	1160	1200	1130	1100	1120	1100	1080	1090	1130	1080	1100
16	1220	1170	1210	1130	1110	1120	1100	1070	1080	1100	1090	1100
17	1240	1210	1230	1130	1100	1130	1120	1060	1080	1090	1080	1090
18	1240	1210	1230	1130	1090	1110	1160	1060	1110	1090	1090	1090
19	1240	1200	1230	1130	1110	1120	1090	1080	1090	1090	1090	1090
20	1240	1200	1230	1120	1090	1110	1090	1080	1090	1090	1080	1090
21	1240	1210	1230	1120	1100	1110	1090	1060	1060	---	---	---
22	1240	1210	1230	1120	1090	1110	1090	1070	1080	---	---	---
23	1240	1200	1220	1110	1090	1100	1130	1110	1120	---	---	---
24	1210	1180	1200	1110	1050	1100	1190	1110	1160	---	---	---
25	1210	1170	1200	1110	1070	1090	1090	1060	1080	1090	1060	1080
26	1200	1180	1190	1140	1090	1110	1160	1110	1110	1090	1070	1080
27	1200	1170	1190	1140	1090	1110	1100	1080	1090	1130	1070	1100
28	1210	1180	1190	1110	1100	1100	1160	1080	1150	1090	1080	1080
29	1210	1150	1190	1110	1090	1100	1100	1040	1080	1150	1050	1100
30	1190	1160	1180	1110	1090	1100	1080	1040	1050	1130	1060	1090
31	1230	1190	1200	---	---	---	1080	1050	1060	1090	1060	1080
MONTH	1270	1150	1220	1260	1050	1150	1190	1040	1100	1180	1040	1090

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1110	1070	1090	1080	1000	1050	1000	962	980	1120	1000	1060
2	1140	1060	1100	1060	1020	1050	999	969	984	1120	1010	1060
3	1170	1120	1150	1030	800	946	1000	978	986	1010	982	999
4	1210	1130	1180	1020	935	978	991	969	983	988	840	882
5	1210	1140	1170	1040	971	1020	1000	956	985	908	846	869
6	1170	1100	1140	1080	990	1050	987	967	977	1010	911	942
7	1120	1050	1080	1060	1010	1040	986	944	966	1050	1000	1020
8	1170	1060	1120	1050	1010	1040	1040	949	997	1210	1050	1090
9	1080	1030	1070	1050	1000	1030	1000	962	986	1200	1110	1150
10	1110	1040	1080	1040	977	1010	1000	965	987	1240	1090	1140
11	1150	1020	1090	1040	983	1020	998	978	989	1190	1130	1150
12	1120	1030	1080	1070	904	980	987	957	974	1190	946	1080
13	1070	1050	1070	971	909	945	976	932	952	1020	917	966
14	1080	1050	1070	937	871	905	976	954	964	1110	1020	1080
15	1080	1030	1060	872	836	856	949	843	897	1110	1010	1060
16	1080	1030	1060	939	837	892	885	845	872	1100	1060	1080
17	1080	1030	1060	975	909	941	932	868	882	1180	1080	1120
18	---	---	---	994	942	967	922	890	905	1160	1110	1130
19	---	---	---	1000	971	983	966	902	922	1140	1080	1110
20	1070	862	988	1010	977	989	1020	936	982	1120	1070	1090
21	1040	630	905	1020	968	998	1090	1010	1050	1130	1090	1110
22	1020	622	832	1020	965	998	1090	1060	1070	1150	1090	1120
23	986	708	858	1020	979	998	1130	1080	1100	1140	1100	1130
24	1020	816	959	1010	982	995	1110	1080	1100	1180	1140	1150
25	1050	808	1010	1000	987	997	1140	1110	1120	1220	1150	1180
26	1070	970	1030	1000	980	988	1230	1140	1160	1150	1090	1120
27	1060	982	1030	991	963	980	1260	1190	1220	1150	1050	1110
28	1070	1010	1050	992	958	980	1270	1170	1240	1270	1150	1220
29	---	---	---	981	951	964	1330	1230	1250	1260	1180	1230
30	---	---	---	1000	966	986	1330	1080	1180	1210	1170	1200
31	---	---	---	1010	983	997	---	---	---	1210	1170	1190
MONTH	1210	622	1050	1080	800	986	1330	843	1020	1270	840	1090

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1210	1180	1200	1260	1210	1240	1340	1300	1320	1070	996	1040
2	1210	1160	1190	1300	1220	1260	1370	1270	1320	1070	998	1040
3	1220	1170	1200	1300	1280	1290	1310	1250	1290	1070	1000	1040
4	1260	1200	1230	1290	1240	1270	1290	1260	1270	1070	1010	1050
5	1260	1210	1230	1290	1250	1270	1310	1260	1290	1070	1000	1040
6	1240	1160	1180	1310	1290	1300	1350	1190	1280	1050	870	979
7	1250	1170	1200	1310	1270	1300	1220	1180	1200	1040	1010	1030
8	1250	1200	1230	1300	1240	1270	1200	1160	1180	1040	1010	1030
9	1250	1200	1230	1280	1250	1260	1190	1150	1170	1040	872	999
10	1240	1210	1220	1300	1270	1280	1170	1070	1100	1040	1010	1030
11	1230	1210	1220	1300	1280	1290	1080	882	1010	1030	974	1000
12	1260	1210	1230	1290	1280	1280	---	---	---	1010	994	999
13	1260	1200	1230	1280	1270	1280	---	---	---	1030	1010	1020
14	1240	1180	1210	1280	1260	1270	---	---	---	1010	964	983
15	1240	1210	1230	1270	1240	1260	1100	1080	1090	1020	998	1010
16	1240	1210	1230	1280	1260	1270	1100	1080	1090	1030	1010	1020
17	1320	1200	1230	1290	1260	1280	1090	883	1040	1040	1010	1030
18	1290	1190	1240	1280	1220	1240	1050	916	1000	1040	1020	1030
19	1330	1270	1290	1280	1240	1260	1060	1020	1050	1040	1010	1030
20	1300	1260	1280	1270	1250	1260	1070	1040	1060	1030	996	1020
21	1310	1260	1280	1300	1250	1270	1070	1060	1060	1030	1010	1020
22	1370	1290	1320	1310	1280	1290	1070	1050	1060	1030	1000	1020
23	1340	1260	1300	1330	1280	1300	1040	986	1020	1030	994	1020
24	1310	1270	1290	1330	1240	1300	1070	1030	1060	1030	998	1020
25	1330	1300	1320	1320	1290	1310	1070	1050	1060	1020	1010	1020
26	1340	1300	1320	1350	1300	1330	1070	1050	1060	1020	994	1010
27	1330	1280	1300	1360	1310	1340	1060	1040	1060	1020	986	1000
28	1310	1260	1290	1400	1300	1330	1060	1030	1050	1020	990	1010
29	1290	1250	1270	1350	1330	1340	1060	1010	1040	1010	986	997
30	1280	1230	1260	1350	1310	1330	1050	996	1030	1000	974	990
31	---	---	---	1340	1290	1320	1050	986	1030	---	---	---
MONTH	1370	1160	1250	1400	1210	1290	1370	882	1120	1070	870	1020
YEAR	1400	622	1120									

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.5	6.8	8.1	12.0	8.4	9.8	11.6	10.6	10.9	9.9	9.1	9.6
2	10.1	7.7	8.5	12.2	8.2	9.4	11.3	9.9	10.6	10.4	9.8	10.1
3	10.3	7.6	8.4	11.8	8.2	9.5	11.3	9.7	10.4	10.5	9.6	10.0
4	9.6	7.7	8.4	12.0	8.1	9.5	11.2	9.5	10.3	10.4	8.3	9.8
5	10.5	7.9	8.9	12.3	8.1	9.7	10.6	9.3	9.9	10.0	8.2	9.5
6	10.8	7.6	9.0	12.2	8.3	9.6	10.8	9.3	10.0	10.2	9.6	9.8
7	10.9	7.5	8.9	11.1	8.3	9.3	10.7	9.3	9.9	---	---	---
8	10.2	7.7	8.5	11.4	8.6	9.6	10.8	9.3	9.9	11.1	10.7	10.8
9	11.4	7.9	9.1	11.3	8.5	9.6	10.8	9.2	9.9	11.0	10.5	10.7
10	11.2	7.6	9.1	11.4	8.6	9.8	10.4	9.0	9.6	10.9	10.5	10.6
11	10.7	7.8	8.7	11.1	8.7	9.6	10.3	8.8	9.4	10.7	10.2	10.5
12	10.9	7.6	9.0	11.2	8.7	9.7	10.5	8.8	9.5	10.5	10.1	10.3
13	10.9	7.6	8.9	11.2	8.7	9.6	10.1	9.1	9.5	10.6	9.9	10.3
14	10.6	7.8	8.9	10.9	8.6	9.5	10.3	9.1	9.6	10.6	9.9	10.2
15	10.7	8.0	8.8	11.1	8.5	9.5	9.9	8.7	9.2	10.6	10.0	10.2
16	10.8	8.3	9.2	11.0	8.6	9.5	10.4	9.2	10.0	10.4	9.5	10.0
17	11.1	8.1	9.1	11.8	9.1	10.0	11.3	10.3	10.7	10.2	9.4	9.8
18	11.2	8.0	9.2	11.6	9.6	10.2	11.3	10.3	10.7	10.1	9.2	9.5
19	11.2	7.9	9.3	11.8	9.9	10.6	10.8	9.4	10.1	10.3	9.2	9.7
20	11.3	7.9	9.2	11.9	9.7	10.7	10.4	9.1	9.7	10.8	9.2	9.6
21	11.3	8.1	9.3	11.7	9.6	10.4	10.4	9.4	9.7	---	---	---
22	11.6	8.1	9.6	11.3	9.2	10.1	10.9	9.8	10.2	---	---	---
23	11.5	8.0	9.5	11.3	9.2	9.9	11.3	10.3	10.7	---	---	---
24	11.1	8.5	9.4	11.2	9.0	10.0	11.0	10.4	10.8	---	---	---
25	12.1	8.2	9.5	11.0	9.5	10.3	10.8	10.2	10.4	10.3	9.1	9.7
26	12.4	8.0	9.6	11.6	10.3	10.9	10.8	9.9	10.3	10.3	9.4	9.8
27	12.5	7.9	9.6	11.5	10.0	10.7	10.3	10.0	10.2	10.6	9.3	10.0
28	12.5	7.9	9.5	11.6	9.9	10.7	10.5	10.2	10.3	10.2	9.4	9.9
29	12.4	7.9	9.2	11.3	9.9	10.5	10.6	10.0	10.3	10.6	10.0	10.3
30	12.2	8.8	10.0	11.3	10.1	10.6	10.0	9.3	9.7	10.5	9.5	10.1
31	12.1	8.8	10.1	---	---	---	10.5	9.5	9.9	10.4	9.5	10.0
MONTH	12.5	6.8	9.1	12.3	8.1	10.0	11.6	8.7	10.1	11.1	8.2	10.0

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.5	9.6	10.1	10.1	8.6	9.3	9.2	7.7	8.5	11.1	7.4	9.0
2	10.3	9.6	10.0	9.4	8.1	9.0	9.5	8.0	8.7	12.4	7.1	9.5
3	10.3	9.7	9.9	10.0	9.3	9.5	9.4	7.2	8.3	10.0	7.1	8.5
4	10.2	9.6	9.8	10.4	8.9	9.7	8.7	7.2	8.0	8.8	8.1	8.4
5	10.0	9.7	9.8	10.4	8.2	9.9	9.1	7.1	8.1	9.7	7.7	8.9
6	9.8	9.6	9.7	10.8	8.9	10.0	9.0	7.1	8.3	10.3	7.4	8.9
7	9.9	9.6	9.7	10.4	8.4	9.6	10.0	9.1	9.6	10.1	7.9	8.8
8	10.0	9.6	9.7	10.5	9.1	9.8	10.4	8.7	9.7	9.2	7.4	8.2
9	9.8	9.6	9.7	10.7	8.9	9.8	10.7	8.5	9.4	9.2	7.6	8.2
10	9.8	9.6	9.7	10.2	8.9	9.7	10.7	7.8	9.4	9.5	7.4	8.5
11	10.0	9.5	9.7	10.0	8.7	9.4	10.0	7.9	8.9	9.1	7.3	8.3
12	10.0	9.1	9.6	10.0	8.7	9.4	9.5	7.4	8.8	9.9	7.8	9.0
13	9.4	8.5	9.0	10.8	8.4	9.7	10.0	7.3	8.6	9.7	7.9	8.8
14	9.4	8.2	8.8	10.7	9.0	9.8	9.9	7.1	8.5	9.3	7.4	8.4
15	9.3	8.4	8.9	10.1	9.1	9.7	9.5	7.3	8.5	9.4	7.2	8.2
16	9.4	7.9	8.8	10.3	9.0	9.7	9.7	7.6	8.6	9.2	7.1	8.0
17	9.8	8.1	8.9	10.6	8.4	9.6	10.0	7.2	8.6	9.1	7.0	8.0
18	---	---	---	10.5	8.8	9.7	9.5	7.8	8.5	9.1	7.5	7.9
19	---	---	---	10.7	9.8	10.3	9.8	7.9	8.8	9.2	7.8	8.3
20	10.6	8.6	9.6	11.1	9.6	10.5	9.8	7.9	9.2	9.4	7.2	8.5
21	10.3	8.4	9.5	11.4	9.6	10.7	10.1	7.4	8.9	9.9	6.8	8.4
22	10.2	8.6	9.5	11.4	9.4	10.5	10.0	6.9	8.6	9.9	7.2	8.5
23	9.7	8.7	9.4	11.3	7.5	10.0	9.5	7.4	8.5	10.2	6.8	8.7
24	10.2	8.6	9.4	11.1	8.7	10.0	9.8	6.7	8.3	11.1	7.1	9.1
25	10.1	8.2	9.3	11.0	8.4	9.7	9.6	6.9	8.2	11.2	6.7	9.2
26	10.4	8.0	9.3	10.1	9.2	9.7	9.9	7.1	8.4	11.2	6.4	8.9
27	9.9	8.6	9.3	9.9	8.7	9.3	10.7	7.9	9.3	10.5	6.8	7.8
28	10.0	8.1	9.1	9.9	8.1	9.0	10.7	7.1	8.9	9.3	7.0	8.2
29	---	---	---	9.6	7.6	9.2	11.5	7.6	9.0	9.6	6.8	8.0
30	---	---	---	10.1	7.7	9.6	12.8	7.1	9.9	9.5	7.2	8.1
31	---	---	---	10.2	7.8	9.1	---	---	---	9.7	6.2	8.2
MONTH	10.6	7.9	9.5	11.4	7.5	9.7	12.8	6.7	8.8	12.4	6.2	8.5

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.6	6.6	8.1	8.0	6.1	7.2	8.6	5.2	6.9	10.0	7.0	8.5
2	9.7	6.4	8.1	8.7	6.2	7.5	7.8	5.7	6.6	9.9	6.9	8.4
3	9.8	6.0	7.9	8.5	5.9	7.4	8.6	5.6	7.1	9.7	6.9	8.3
4	9.5	5.8	7.8	8.5	6.1	7.3	8.5	5.5	6.8	9.3	7.0	8.2
5	8.9	5.8	7.5	8.3	6.6	7.6	8.2	5.2	6.8	9.2	6.0	7.9
6	8.1	5.8	7.1	8.4	6.3	7.4	8.2	5.5	6.7	8.4	7.0	7.7
7	7.9	5.3	7.1	8.5	6.3	7.5	7.9	5.7	6.8	9.4	7.2	8.3
8	9.6	6.0	7.8	8.6	6.6	7.3	8.1	5.6	6.7	9.7	7.2	8.2
9	9.7	6.6	8.3	8.3	6.2	7.3	8.3	5.3	6.7	9.3	7.2	7.9
10	9.5	6.6	8.3	8.5	6.1	7.3	7.4	5.6	6.5	9.7	6.8	8.1
11	9.3	6.3	8.0	8.1	6.3	7.2	7.8	6.8	7.4	8.2	7.2	7.6
12	9.1	6.0	7.8	8.2	6.1	7.2	---	---	---	9.2	7.2	7.9
13	9.2	6.5	7.9	8.2	6.4	7.2	---	---	---	8.9	7.6	8.1
14	9.1	7.0	7.9	8.2	6.0	7.1	---	---	---	8.5	7.8	8.1
15	9.1	6.7	8.0	8.3	6.2	7.2	8.0	6.4	7.2	9.3	7.4	8.4
16	9.2	6.1	7.8	8.4	6.1	7.4	7.8	6.0	7.1	9.5	7.1	8.3
17	8.7	6.2	7.5	8.3	6.1	7.2	7.8	6.2	7.1	9.1	7.0	8.0
18	9.1	6.6	7.7	8.5	6.3	7.3	7.7	6.4	7.1	9.3	7.1	8.0
19	9.4	6.5	8.1	9.0	5.8	7.5	7.8	6.1	7.0	9.3	6.9	7.9
20	8.4	5.6	7.2	9.1	6.1	7.3	7.9	6.1	7.2	9.2	6.8	7.7
21	8.4	6.1	7.1	9.4	5.9	7.6	7.7	6.4	7.0	9.0	7.2	7.9
22	9.0	6.5	7.5	8.8	5.6	7.1	7.3	6.7	7.0	9.7	7.0	8.2
23	10.3	6.0	7.8	9.4	5.5	7.2	7.7	6.0	6.9	9.6	6.9	8.1
24	9.8	5.9	7.8	9.4	5.7	7.1	6.9	6.2	6.6	9.7	6.8	8.2
25	9.5	6.5	7.5	9.5	5.5	7.2	7.5	6.7	7.1	8.9	7.1	7.8
26	9.7	6.1	8.0	9.2	5.6	7.1	7.6	6.2	7.0	8.7	6.5	7.4
27	9.6	5.8	7.7	9.0	5.5	6.9	7.5	5.6	6.7	8.3	6.8	7.3
28	9.0	5.7	7.4	9.1	5.8	7.0	---	---	---	8.8	7.2	7.7
29	8.5	5.8	7.3	9.7	5.8	7.6	---	---	---	8.7	7.1	7.7
30	8.4	5.7	7.1	9.6	5.6	7.6	---	---	---	8.4	7.0	7.5
31	---	---	---	9.2	5.5	7.4	8.7	7.3	7.7	---	---	---
MONTH	10.3	5.3	7.7	9.7	5.5	7.3	8.7	5.2	7.0	10.0	6.0	8.0
YEAR	12.8	5.2	8.8									

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	7.9	8.0	8.1	7.9	8.0	8.4	8.2	8.3	8.6	8.5	8.5
2	8.0	7.8	7.9	8.1	7.8	7.9	8.4	8.2	8.3	8.6	8.5	8.5
3	8.1	7.8	7.9	8.1	7.8	7.9	8.4	8.2	8.3	8.5	8.4	8.5
4	8.0	7.8	7.9	8.1	7.8	7.9	8.4	8.2	8.3	8.5	8.4	8.5
5	8.1	7.8	7.9	8.1	7.8	7.9	8.4	8.2	8.3	8.6	8.5	8.5
6	8.2	7.9	8.0	8.1	7.8	8.0	8.4	8.2	8.3	8.6	8.5	8.6
7	8.2	7.9	8.0	8.2	7.9	8.0	8.4	8.2	8.3	---	---	---
8	8.1	7.8	7.9	8.2	7.9	8.0	8.4	8.2	8.3	8.4	8.3	8.4
9	8.2	7.8	8.0	8.2	7.9	8.0	8.4	8.2	8.3	8.4	8.3	8.3
10	8.2	7.9	8.0	8.2	7.9	8.0	8.4	8.2	8.3	8.5	8.3	8.4
11	8.1	7.9	8.0	8.3	7.9	8.1	8.4	8.2	8.3	8.5	8.4	8.4
12	8.2	7.9	8.0	8.3	8.0	8.1	8.4	8.2	8.3	8.5	8.4	8.5
13	8.3	7.9	8.0	8.4	8.1	8.2	8.4	8.2	8.3	8.5	8.5	8.5
14	8.2	7.9	8.0	8.4	8.1	8.2	8.4	8.3	8.3	8.6	8.4	8.5
15	8.2	7.9	8.0	8.4	8.1	8.2	8.4	8.3	8.3	8.5	8.4	8.5
16	8.2	7.9	8.0	8.4	8.1	8.2	8.4	8.2	8.3	8.6	8.5	8.5
17	8.2	7.9	8.0	8.5	8.1	8.2	8.4	8.3	8.3	8.6	8.5	8.5
18	8.2	7.9	8.0	8.4	8.2	8.2	8.4	8.2	8.3	8.6	8.5	8.5
19	8.2	7.9	8.0	8.4	8.2	8.3	8.4	8.3	8.3	8.6	8.5	8.5
20	8.2	7.9	8.0	8.4	8.2	8.3	8.5	8.3	8.4	8.6	8.5	8.5
21	8.2	7.9	8.0	8.4	8.2	8.3	8.4	8.3	8.3	---	---	---
22	8.2	7.9	8.1	8.5	8.2	8.3	8.5	8.3	8.4	---	---	---
23	8.2	7.9	8.0	8.4	8.2	8.3	8.5	8.3	8.4	---	---	---
24	8.2	7.9	8.0	8.5	8.2	8.3	8.4	8.3	8.4	---	---	---
25	8.2	7.9	8.0	8.4	8.2	8.2	8.4	8.3	8.3	8.6	8.5	8.5
26	8.3	7.9	8.0	8.4	8.2	8.3	8.4	8.3	8.4	8.6	8.5	8.6
27	8.3	7.9	8.0	8.4	8.2	8.3	8.4	8.4	8.4	8.6	8.5	8.5
28	8.3	7.9	8.0	8.4	8.2	8.3	8.4	8.4	8.4	8.6	8.5	8.6
29	8.3	7.8	8.0	8.4	8.2	8.3	8.4	8.3	8.4	8.6	8.5	8.5
30	8.2	7.9	8.0	8.4	8.2	8.3	8.5	8.1	8.4	8.6	8.5	8.5
31	8.1	7.9	8.0	---	---	---	8.5	8.4	8.5	8.6	8.5	8.6
MONTH	8.3	7.8	8.0	8.5	7.8	8.2	8.5	8.1	8.3	8.6	8.3	8.5

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.6	8.5	8.5	8.4	8.3	8.4	8.5	8.4	8.4	8.5	8.2	8.3
2	8.6	8.4	8.5	8.5	8.3	8.4	8.5	8.4	8.4	8.7	8.2	8.4
3	8.5	8.4	8.5	8.3	8.2	8.3	8.5	8.4	8.4	8.6	8.3	8.3
4	8.4	8.3	8.4	8.4	8.3	8.3	8.5	8.4	8.4	8.3	8.2	8.2
5	8.4	8.3	8.3	8.4	8.3	8.4	8.5	8.3	8.4	8.5	8.2	8.4
6	8.4	8.3	8.3	8.5	8.3	8.4	8.4	8.3	8.4	8.5	8.3	8.4
7	8.4	8.3	8.4	8.5	8.3	8.4	8.4	8.3	8.4	8.5	8.2	8.3
8	8.5	8.4	8.4	8.4	8.3	8.4	8.4	8.3	8.3	8.5	8.1	8.3
9	8.5	8.4	8.4	8.4	8.3	8.4	8.5	8.3	8.4	8.5	8.1	8.2
10	8.5	8.4	8.5	8.4	8.3	8.4	8.5	8.3	8.4	8.3	8.1	8.2
11	8.6	8.5	8.5	8.4	8.3	8.4	8.5	8.3	8.4	8.2	8.0	8.1
12	8.6	8.5	8.5	8.4	8.3	8.4	8.4	8.3	8.4	8.2	8.0	8.1
13	8.6	8.5	8.6	8.5	8.3	8.4	8.6	8.3	8.4	8.3	8.2	8.2
14	8.6	8.5	8.6	8.4	8.3	8.4	8.5	8.4	8.4	8.3	8.2	8.2
15	8.6	8.5	8.5	8.4	8.3	8.3	8.5	8.3	8.4	8.3	8.2	8.2
16	8.6	8.5	8.5	8.5	8.3	8.4	8.5	8.3	8.4	8.4	8.2	8.3
17	8.6	8.5	8.5	8.5	8.3	8.4	8.6	8.3	8.4	8.4	8.0	8.2
18	---	---	---	8.5	8.4	8.4	8.5	8.3	8.4	8.3	8.0	8.1
19	---	---	---	8.4	8.4	8.4	8.5	8.2	8.3	8.3	8.0	8.1
20	8.6	8.4	8.5	8.5	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3
21	8.6	8.3	8.4	8.5	8.4	8.4	8.5	8.1	8.3	8.4	8.2	8.3
22	8.5	8.2	8.4	8.5	8.4	8.4	8.5	8.2	8.3	8.4	8.1	8.2
23	8.4	8.2	8.3	8.5	8.4	8.4	8.4	8.2	8.3	8.5	8.1	8.3
24	8.5	8.3	8.4	8.5	8.1	8.4	8.5	8.2	8.3	8.5	8.0	8.2
25	8.5	8.4	8.4	8.5	8.3	8.4	8.5	8.2	8.3	8.5	8.0	8.2
26	8.5	8.4	8.4	8.4	8.4	8.4	8.5	8.1	8.2	8.5	8.0	8.2
27	8.5	8.3	8.4	8.5	8.3	8.4	8.6	8.0	8.2	8.4	8.0	8.2
28	8.5	8.3	8.4	8.5	8.4	8.4	8.7	8.1	8.3	8.2	8.0	8.1
29	---	---	---	8.4	8.4	8.4	8.7	8.1	8.3	8.3	7.9	8.1
30	---	---	---	8.4	8.4	8.4	8.6	8.1	8.3	8.2	8.0	8.1
31	---	---	---	8.5	8.3	8.4	---	---	---	8.4	7.9	8.1
MONTH	8.6	8.2	8.4	8.5	8.1	8.4	8.7	8.0	8.4	8.7	7.9	8.2

PROCESS DATE IS 03-09-83

STATION NUMBER 09306007 PICEANCE CREEK BELOW RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.4	8.0	8.2	8.3	8.0	8.1	8.4	8.0	8.1	8.7	8.2	8.4
2	8.4	8.0	8.1	8.4	7.8	8.0	8.3	8.0	8.2	8.7	8.2	8.4
3	8.5	8.0	8.2	8.3	7.9	8.0	8.5	7.9	8.2	8.7	8.2	8.4
4	8.4	8.0	8.2	8.3	7.9	8.1	8.5	8.0	8.2	8.6	8.2	8.4
5	8.4	7.9	8.1	8.2	7.9	8.0	8.6	8.1	8.3	8.6	8.2	8.3
6	8.4	8.0	8.2	8.2	7.9	8.0	8.5	8.1	8.3	8.4	8.0	8.2
7	8.3	8.0	8.2	8.1	7.8	8.0	8.5	8.2	8.3	8.5	8.2	8.3
8	8.3	8.0	8.1	8.2	7.9	8.0	8.5	8.2	8.3	8.5	8.2	8.3
9	8.4	7.9	8.1	8.2	7.9	8.0	8.6	8.1	8.3	8.4	8.2	8.3
10	8.3	7.9	8.1	8.2	7.9	8.0	8.4	8.0	8.2	8.5	8.2	8.3
11	8.4	7.9	8.1	8.2	7.9	8.1	8.3	8.1	8.2	8.3	8.2	8.2
12	8.3	7.9	8.1	8.2	7.9	8.0	---	---	---	8.5	8.1	8.3
13	8.4	7.9	8.1	8.2	7.9	8.0	---	---	---	8.3	8.1	8.2
14	8.3	7.9	8.0	8.2	7.9	8.1	---	---	---	8.2	8.0	8.1
15	8.2	7.8	8.0	8.3	8.0	8.1	8.4	8.2	8.3	8.5	8.0	8.3
16	8.4	7.9	8.1	8.3	7.9	8.1	8.4	8.2	8.3	8.5	8.1	8.3
17	8.3	7.9	8.1	8.3	8.0	8.1	8.5	8.1	8.3	8.5	8.2	8.3
18	8.1	7.8	8.0	8.4	8.0	8.1	8.4	8.2	8.3	8.4	8.1	8.3
19	8.2	7.8	7.9	8.4	8.1	8.2	8.5	8.2	8.4	8.4	8.1	8.3
20	8.2	7.9	8.0	8.4	8.1	8.2	8.5	8.3	8.4	8.5	8.1	8.3
21	8.1	7.9	8.0	8.4	8.0	8.2	8.5	8.3	8.4	8.6	8.1	8.3
22	8.1	7.9	8.0	8.3	7.9	8.1	8.4	8.3	8.3	8.5	8.1	8.3
23	8.4	7.9	8.1	8.4	7.9	8.1	8.5	8.2	8.3	8.6	8.2	8.3
24	8.2	7.8	8.0	8.4	8.0	8.1	8.6	8.3	8.4	8.5	8.1	8.3
25	8.2	7.8	7.9	8.4	7.9	8.1	8.5	8.3	8.3	8.4	8.1	8.3
26	8.3	7.7	8.0	8.3	7.9	8.1	8.5	8.2	8.4	8.5	8.2	8.3
27	8.3	7.9	8.0	8.4	7.9	8.1	8.5	8.2	8.4	8.4	8.2	8.2
28	8.3	7.9	8.1	8.3	7.9	8.0	8.6	8.2	8.4	8.3	8.0	8.1
29	8.3	7.9	8.1	8.4	7.9	8.1	8.6	8.2	8.4	8.3	8.0	8.1
30	8.3	7.9	8.1	8.5	7.9	8.2	8.6	8.2	8.4	8.3	8.0	8.2
31	---	---	---	8.4	8.0	8.2	8.7	8.2	8.4	---	---	---
MONTH	8.5	7.7	8.1	8.5	7.8	8.1	8.7	7.9	8.3	8.7	8.0	8.3
YEAR	8.7	7.7	8.3									

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	6.0	8.5	10.5	4.0	6.0	5.5	2.0	4.0	8.0	3.5	5.5
2	10.5	7.5	8.5	10.5	4.5	6.5	7.5	3.5	5.0	6.0	2.0	4.0
3	11.5	8.5	9.0	11.0	4.5	6.5	8.5	3.5	5.0	6.0	3.0	4.0
4	9.5	8.0	8.5	11.0	4.5	6.5	8.0	3.5	5.5	5.5	2.0	4.0
5	11.5	7.5	9.0	10.5	4.5	7.0	9.0	4.5	6.0	7.5	4.5	5.5
6	12.0	6.5	8.5	10.0	5.0	7.0	9.0	4.0	5.5	5.0	1.0	3.5
7	12.0	7.0	8.5	10.0	5.5	7.5	9.5	4.5	6.0	4.5	1.0	2.0
8	9.0	8.0	8.5	9.5	5.0	6.5	9.5	4.0	6.0	6.0	1.5	3.0
9	10.5	7.0	8.0	10.0	4.0	6.0	9.0	4.0	5.5	7.0	2.5	4.0
10	11.0	6.5	8.5	9.5	4.0	6.0	9.0	5.0	6.5	8.0	3.0	4.5
11	9.5	7.0	8.0	10.0	4.0	6.0	9.0	5.0	6.5	7.0	3.5	5.0
12	11.0	7.0	8.0	10.0	4.0	6.0	8.5	4.5	6.0	7.0	3.0	4.5
13	11.0	6.5	8.5	10.5	5.0	7.0	7.0	5.0	6.0	7.5	3.5	5.0
14	10.0	7.0	8.0	9.5	6.0	7.0	7.0	4.5	5.5	7.0	2.5	4.5
15	9.0	6.5	7.5	9.5	5.5	7.0	8.5	4.5	6.0	7.5	3.0	4.5
16	9.5	6.5	7.5	10.5	5.0	6.5	7.0	3.5	5.0	8.5	3.5	5.5
17	10.0	7.0	8.0	9.0	4.5	6.5	7.0	2.5	4.5	8.0	4.0	5.5
18	10.5	6.0	7.5	7.5	5.0	6.0	7.0	2.5	4.5	7.5	4.5	5.5
19	11.0	5.5	7.5	8.0	3.5	5.0	8.0	5.0	6.5	8.0	3.5	5.5
20	10.5	5.5	7.5	8.0	3.5	5.5	9.0	5.5	6.5	8.0	3.5	5.5
21	10.5	5.5	7.0	8.5	4.5	6.0	6.5	5.0	6.0	5.5	3.0	4.5
22	10.0	5.0	6.5	9.0	5.5	7.0	7.0	3.5	5.0	6.5	3.0	4.5
23	10.0	4.5	7.0	9.5	5.5	7.0	6.5	2.0	3.5	6.0	2.5	4.0
24	7.5	6.0	6.5	9.5	5.5	6.5	5.5	1.5	4.0	8.5	4.5	6.0
25	9.5	5.5	7.0	6.0	4.5	5.0	6.5	3.5	5.0	9.0	3.5	5.5
26	10.5	5.0	7.0	7.5	2.5	4.0	5.5	2.5	4.0	10.0	5.0	6.5
27	10.5	6.0	7.5	7.0	3.0	5.0	6.5	2.0	4.5	9.0	3.5	5.5
28	9.5	6.0	7.5	7.5	3.5	5.0	5.5	1.5	3.0	9.5	3.0	5.5
29	8.5	5.5	7.0	6.5	4.0	5.0	7.5	3.5	5.0	8.0	3.0	5.5
30	7.5	4.5	5.5	7.0	3.5	5.0	8.5	4.0	6.0	9.0	2.5	4.5
31	9.5	3.0	5.5	---	---	---	7.0	3.5	5.0	8.5	3.5	5.5
MONTH	12.5	3.0	7.5	11.0	2.5	6.0	9.5	1.5	5.5	10.0	1.0	5.0

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	4.5	5.5	9.5	5.0	7.0	8.0	7.0	7.5	12.0	7.5	9.5
2	8.5	3.5	5.0	11.0	7.0	8.0	8.0	6.5	7.0	12.5	7.5	9.5
3	7.0	3.0	4.5	8.5	5.5	6.5	8.0	6.5	7.0	12.5	8.5	10.0
4	6.0	1.5	3.0	9.5	5.0	6.5	8.0	7.0	7.5	---	---	---
5	6.5	1.0	2.5	8.5	4.5	6.0	7.5	6.5	7.0	13.0	6.0	9.0
6	7.0	1.0	3.0	11.0	4.0	6.5	11.5	6.0	8.5	14.0	5.0	8.5
7	8.0	1.5	4.0	11.0	5.5	7.0	7.5	4.0	6.0	12.5	5.5	8.5
8	8.0	2.0	5.0	9.5	5.0	7.0	11.5	3.5	6.5	14.0	7.0	9.5
9	7.0	2.0	4.5	10.5	5.0	7.0	13.0	4.5	7.5	14.0	7.0	9.0
10	8.5	3.0	5.0	10.0	5.5	7.0	14.0	4.5	8.0	13.0	6.5	9.0
11	8.5	3.0	5.0	9.5	6.5	7.5	13.0	6.0	9.0	12.0	6.5	9.0
12	9.5	3.0	5.0	11.5	5.5	7.5	10.5	7.0	8.5	8.0	5.0	6.5
13	10.0	3.5	6.5	13.0	5.0	7.5	12.5	6.5	9.0	12.5	6.5	8.0
14	9.5	6.0	7.0	10.5	5.5	7.5	12.0	6.5	9.0	13.5	7.0	9.0
15	9.5	5.5	7.0	11.0	6.5	7.5	10.5	6.5	8.0	13.0	6.0	9.0
16	8.5	5.5	6.5	11.0	5.5	7.5	10.5	6.0	8.0	15.5	6.5	9.5
17	10.5	5.0	6.5	12.0	5.0	8.0	11.0	6.0	8.0	14.5	5.0	10.0
18	11.0	4.5	6.0	11.5	5.5	7.5	9.5	6.5	8.0	15.0	7.0	10.0
19	11.0	4.0	6.5	8.0	5.0	6.5	9.0	6.0	7.5	13.0	7.5	9.5
20	11.0	4.5	6.5	9.0	5.0	6.5	9.0	5.0	6.5	15.5	5.5	10.0
21	11.5	5.0	6.5	8.0	5.0	6.0	13.5	4.0	7.5	17.0	6.0	10.5
22	10.5	5.0	6.5	9.5	5.0	6.5	14.5	4.5	8.5	15.0	6.5	10.0
23	10.0	5.5	6.5	10.0	5.0	7.0	11.5	6.0	8.0	17.0	7.0	11.0
24	10.5	4.5	6.5	9.5	5.5	7.0	14.0	6.0	9.5	15.5	7.0	10.0
25	11.5	5.0	7.0	9.5	6.0	7.5	12.0	6.5	8.5	16.0	6.5	10.5
26	11.5	4.5	7.0	8.0	7.0	7.5	11.5	7.0	8.5	18.0	6.5	11.0
27	10.0	5.5	7.0	8.5	7.0	7.5	11.5	7.5	9.0	17.5	7.0	11.0
28	11.0	5.5	7.5	9.0	7.0	7.5	14.0	6.5	9.5	14.0	7.0	10.0
29	---	---	---	7.5	6.5	7.0	12.0	7.5	9.0	16.0	6.5	10.5
30	---	---	---	7.5	6.0	6.5	12.5	6.5	9.0	13.5	7.0	9.0
31	---	---	---	8.5	6.0	7.0	---	---	---	17.0	6.5	11.0
MONTH	11.5	1.0	5.5	13.0	4.0	7.0	14.5	3.5	8.0	18.0	5.0	9.5

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	7.0	10.0	16.5	8.5	11.5	15.0	8.0	11.5	13.5	8.0	10.5
2	14.5	6.5	10.0	16.5	7.5	11.0	13.0	10.0	11.0	13.5	7.0	10.0
3	16.0	7.5	10.5	17.0	7.5	11.5	14.0	9.5	11.5	13.5	7.5	10.0
4	16.5	6.5	10.5	16.5	7.5	11.0	14.0	8.0	11.0	12.5	8.0	10.0
5	16.5	6.5	10.5	13.5	8.5	10.5	14.0	8.5	11.0	13.0	9.5	10.5
6	16.0	6.0	10.0	15.5	7.0	10.5	14.0	8.5	10.5	13.0	8.0	10.0
7	17.0	5.5	10.5	14.0	6.5	10.0	14.0	7.5	11.0	11.5	8.0	9.5
8	16.0	6.0	10.0	13.5	8.5	10.5	13.5	9.0	11.0	11.5	8.5	9.5
9	17.0	6.0	10.5	14.5	7.5	11.0	13.5	9.0	11.0	11.0	8.0	9.5
10	15.0	6.0	10.0	16.0	7.0	11.0	13.5	7.0	10.0	12.0	9.0	10.0
11	18.0	7.0	11.5	15.5	8.0	11.0	13.5	9.0	10.5	10.0	9.0	9.5
12	14.5	7.5	10.5	15.5	8.0	11.0	12.0	7.5	10.0	11.5	8.0	9.5
13	14.5	7.5	10.5	14.5	8.5	10.5	12.0	8.5	10.0	9.5	8.0	8.5
14	15.0	7.0	9.5	15.0	7.5	11.0	13.0	9.5	11.0	9.5	7.0	8.5
15	14.5	7.0	10.0	15.0	6.5	11.0	14.5	8.5	11.0	13.0	7.5	9.5
16	18.0	7.0	11.5	15.5	6.5	12.0	13.0	9.0	10.5	12.5	7.5	9.5
17	18.0	8.0	12.0	15.0	8.0	11.5	13.5	8.5	10.0	12.0	8.5	10.0
18	14.5	8.5	10.5	14.5	8.5	11.0	14.0	8.0	10.5	11.0	7.5	9.0
19	17.0	7.5	11.0	15.5	7.5	11.0	14.0	7.0	11.0	11.5	7.5	9.5
20	17.5	7.0	11.5	14.0	7.5	10.5	13.0	9.0	11.0	12.5	8.0	9.5
21	14.5	7.5	10.0	14.5	7.0	11.0	13.5	9.5	11.0	12.5	8.0	9.5
22	14.0	8.0	10.0	15.5	9.5	12.0	12.0	9.5	10.5	13.0	7.5	9.5
23	16.0	8.0	11.0	15.5	9.0	12.0	13.5	9.0	10.5	13.0	8.0	10.0
24	16.5	6.0	11.5	14.5	9.0	11.5	14.5	9.5	11.0	12.0	7.0	9.5
25	15.5	8.0	10.5	15.0	9.0	11.5	12.0	9.0	10.5	11.0	8.5	9.5
26	17.0	7.0	11.5	14.0	9.0	11.0	13.0	8.5	10.5	12.0	9.5	10.0
27	18.0	7.5	12.0	13.0	9.5	11.0	12.0	8.5	10.0	10.5	8.5	9.5
28	17.5	8.0	12.0	13.0	6.5	10.5	13.0	8.5	10.5	9.0	7.5	8.0
29	17.0	8.0	11.5	14.0	9.5	11.5	13.0	9.0	10.5	9.5	7.0	8.0
30	16.5	9.0	11.5	15.5	8.5	11.5	14.0	8.5	10.5	10.0	7.5	8.5
31	---	---	---	15.0	8.5	11.5	12.0	8.5	10.0	---	---	---
MONTH	18.0	5.5	11.0	17.0	6.5	11.0	15.0	7.0	10.5	13.5	7.0	9.5
YEAR	18.0	1.0	8.0									

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.94			.90			1.2			1.3
2			.94			.96			1.2			1.3
3			1.0			.97			1.2			1.3
4			1.0			1.0			1.1			1.3
5			1.0			1.0			1.1			1.3
6			.95			1.0			1.1			1.3
7			.95			1.1			1.1			1.3
8			1.0			1.1			1.1			1.3
9			1.0			1.1			1.1			1.3
10			.95			1.1			1.1			1.3
11			1.0			1.1			1.1			1.3
12			1.0			1.0			1.1			1.3
13			1.0			1.0			1.1			1.3
14			.95			1.0			1.1			1.3
15			.95			1.0			1.2			1.3
16			.95			1.0			1.2			1.3
17			.95			1.0			1.2			1.4
18			.89			1.1			1.2			1.4
19			.89			1.1			1.2			1.4
20			.89			1.1			1.2			1.4
21			.89			1.1			1.2			1.4
22			.89			1.1			1.2			1.4
23			.89			1.1			1.3			1.4
24			.89			1.1			1.3			1.4
25			.89			1.1			1.3			1.4
26			.89			1.1			1.3			1.5
27			.89			1.2			1.3			1.4
28			.96			1.2			1.3			1.5
29			.96			1.2			1.3			1.4
30			.96			1.2			1.3			1.5
31			.96						1.3			1.5
MONTH			.94			1.1			1.2			1.4

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			1.5			1.7			1.7			1.8
2			1.5			1.7			1.7			1.8
3			1.5			1.7			1.7			1.8
4			1.4			1.6			1.7			1.8
5			1.4			1.6			1.7			1.6
6			1.4			1.6			1.8			1.6
7			1.4			1.5			1.7			1.6
8			1.4			1.5			1.7			1.6
9			1.4			1.5			1.6			1.5
10			1.4			1.6			1.6			1.5
11			1.4			1.6			1.6			1.4
12			1.4			1.6			1.6			1.4
13			1.4			1.6			1.6			1.5
14			1.6			1.7			1.6			1.5
15			1.7			1.7			1.7			1.5
16			1.8			1.7			1.6			1.5
17			1.9			1.7			1.6			1.6
18			1.8			1.7			1.6			1.5
19			1.8			1.6			1.6			1.6
20			2.0			1.6			1.7			1.5
21			2.2			1.6			1.8			1.5
22			2.8			1.6			1.8			1.5
23			2.1			1.6			1.8			1.5
24			1.8			1.6			1.8			1.5
25			1.8			1.6			1.8			1.5
26			1.8			1.6			1.8			1.5
27			1.8			1.6			1.8			1.5
28			1.8			1.6			1.8			1.5
29						1.7			1.8			1.6
30						1.7			1.8			1.6
31						1.7						1.6
MONTH			1.7			1.6			1.7			1.6

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			1.5			1.4			1.2			1.1
2			1.5			1.4			1.2			1.1
3			1.5			1.3			1.2			1.1
4			1.5			1.3			1.2			1.1
5			1.5			1.3			1.2			1.2
6			1.5			1.3			1.2			1.2
7			1.5			1.3			1.2			1.2
8			1.5			1.3			1.3			1.2
9			1.7			1.3			1.3			1.2
10			1.5			1.3			1.3			1.2
11			1.5			1.3			1.2			1.2
12			1.5			1.3			1.3			1.3
13			1.5			1.3			1.2			1.3
14			1.5			1.3			1.2			1.2
15			1.5			1.3			1.2			1.1
16			1.5			1.3			1.2			1.0
17			1.5			1.3			1.2			1.0
18			1.5			1.3			1.3			1.0
19			1.5			1.3			1.1			1.0
20			1.5			1.3			1.1			1.0
21			1.6			1.3			1.2			.94
22			1.4			1.2			1.2			.94
23			1.3			1.2			1.2			.94
24			1.3			1.2			1.2			.88
25			1.3			1.2			1.2			.74
26			1.3			1.2			1.2			.53
27			1.3			1.2			1.2			.59
28			1.3			1.2			1.2			.66
29			1.3			1.2			1.2			.74
30			1.3			1.2			1.2			.74
31						1.2			1.2			
MONTH			1.5			1.3			1.2			1.0
YEAR	---	---	1.3									

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1330	1320	1330	1320	1310	1320	1330	1310	1320	1320	1280	1310
2	1330	1290	1320	1320	1310	1320	1320	1300	1310	1330	1300	1320
3	1340	1290	1320	1320	1310	1320	1320	1300	1310	1330	1310	1320
4	1330	1280	1320	1320	1310	1320	1320	1300	1310	1330	1310	1320
5	1330	1290	1320	1320	1310	1320	1320	1300	1310	1320	1300	1320
6	1330	1320	1330	1320	1310	1320	1320	1300	1310	1330	1310	1320
7	1330	1320	1330	1320	1310	1320	1320	1300	1310	1340	1300	1330
8	1330	1300	1310	1320	1310	1320	1320	1300	1310	1320	1300	1310
9	1330	1320	1330	1320	1310	1320	1320	1300	1320	1330	1310	1320
10	1330	1320	1330	1330	1310	1320	1320	1300	1320	1320	1300	1320
11	1330	1270	1320	1330	1310	1320	1320	1310	1320	1320	1310	1320
12	1330	1280	1320	1330	1310	1320	1320	1310	1320	1330	1310	1320
13	1330	1290	1320	1320	1300	1320	1320	1310	1320	1330	1310	1320
14	1330	1320	1320	1320	1310	1320	1320	1310	1320	1330	1310	1320
15	1330	1250	1310	1320	1310	1320	1320	1290	1320	1330	1310	1320
16	1330	1270	1320	1330	1310	1320	1320	1300	1310	1330	1310	1330
17	1330	1320	1320	1330	1310	1320	1320	1300	1320	1330	1320	1330
18	1320	1310	1320	1320	1290	1310	1330	1310	1320	1330	1310	1330
19	1320	1290	1320	1330	1310	1320	1320	1310	1320	1330	1320	1330
20	1320	1310	1320	1330	1310	1320	1320	1300	1320	1330	1310	1330
21	1320	1310	1320	1330	1310	1320	1320	1290	1310	1330	1300	1330
22	1320	1310	1320	1330	1310	1320	1320	1310	1320	1330	1300	1320
23	1330	1310	1320	1330	1310	1320	1330	1310	1320	1330	1310	1330
24	1320	1310	1320	1330	1310	1330	1330	1310	1320	1330	1310	1320
25	1330	1310	1320	1330	1290	1320	1320	1310	1320	1330	1310	1320
26	1330	1310	1320	1330	1310	1330	1330	1310	1320	1330	1270	1310
27	1320	1310	1320	1330	1310	1320	1330	1280	1310	1330	1310	1320
28	1320	1310	1320	1330	1310	1320	1330	1310	1320	1330	1290	1320
29	1320	1300	1310	1320	1300	1310	1320	1310	1320	1330	1310	1320
30	1320	1290	1310	1320	1300	1320	1320	1270	1310	1340	1310	1330
31	1330	1310	1320	---	---	---	1320	1310	1320	1330	1290	1320
MONTH	1340	1250	1320	1330	1290	1320	1330	1270	1320	1340	1270	1320

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1330	1310	1320	1320	1270	1300	---	---	---	---	---	---
2	1340	1310	1320	1340	1260	1320	---	---	---	---	---	---
3	1330	1310	1320	1330	1310	1320	---	---	---	---	---	---
4	1330	1310	1330	1320	1290	1300	---	---	---	---	---	---
5	1340	1300	1320	1310	1280	1290	---	---	---	1300	1290	1300
6	1330	1300	1320	1310	1260	1280	1320	1310	1320	1310	1300	1300
7	1330	1310	1320	---	---	---	1320	1270	1300	1320	1310	1310
8	1330	1310	1320	---	---	---	1310	1250	1290	1320	1300	1310
9	1330	1310	1320	---	---	---	1320	1300	1310	1330	1300	1320
10	1330	1310	1320	---	---	---	---	---	---	1330	1320	1320
11	1330	1310	1320	---	---	---	---	---	---	1330	1300	1320
12	1330	1310	1320	---	---	---	---	---	---	1310	1220	1260
13	1320	1310	1320	---	---	---	---	---	---	1310	1250	1280
14	1340	1300	1320	---	---	---	---	---	---	1320	1280	1300
15	1320	1260	1300	---	---	---	---	---	---	1340	1290	1320
16	1320	1220	1290	---	---	---	---	---	---	1320	1300	1310
17	1310	1140	1270	---	---	---	---	---	---	1310	1270	1300
18	1320	1140	1270	---	---	---	---	---	---	1330	1300	1310
19	1320	1010	1240	---	---	---	---	---	---	1320	1310	1320
20	1310	861	1190	---	---	---	---	---	---	1350	1320	1330
21	1310	753	1160	---	---	---	---	---	---	1340	1330	1340
22	1310	583	1140	---	---	---	---	---	---	1360	1310	1340
23	1310	705	1170	---	---	---	---	---	---	---	---	---
24	1320	1110	1280	---	---	---	---	---	---	---	---	---
25	1320	1110	1280	---	---	---	---	---	---	---	---	---
26	1320	1130	1280	---	---	---	---	---	---	---	---	---
27	1320	1240	1300	---	---	---	---	---	---	1350	1300	1320
28	1320	1220	1300	---	---	---	---	---	---	1350	1320	1340
29	---	---	---	---	---	---	---	---	---	1350	1330	1340
30	---	---	---	---	---	---	---	---	---	1340	1250	1300
31	---	---	---	---	---	---	---	---	---	1320	1260	1290
MONTH	1340	583	1280	1340	1260	1300	1320	1250	1310	1360	1220	1310

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1320	1270	1300	1320	1290	1310	1340	1320	1330	1340	1320	1340
2	1320	1290	1310	1330	1300	1320	1320	1250	1300	1340	1320	1330
3	1320	1280	1300	1330	1310	1320	1330	1280	1320	1340	1320	1330
4	1310	1290	1300	1330	1310	1320	1330	1310	1320	1340	1320	1330
5	1300	1280	1300	1320	1300	1310	1330	1310	1320	1340	1290	1330
6	1310	1290	1300	1320	1290	1310	1330	1310	1320	1340	1320	1330
7	1360	1290	1310	1320	1300	1310	1330	1310	1320	1330	1320	1330
8	1360	1310	1340	1320	1290	1310	1330	1310	1320	1330	1310	1330
9	1330	1310	1310	1320	1300	1310	1330	1310	1320	1330	1310	1320
10	1320	1300	1310	1330	1300	1310	1330	1310	1320	1330	1310	1330
11	1320	1300	1310	1320	1310	1310	1330	1300	1320	1330	1250	1300
12	1320	1300	1310	1320	1310	1320	1320	1170	1290	1330	1300	1320
13	1320	1310	1320	1320	1310	1320	1330	1260	1310	1320	1280	1310
14	1320	1300	1310	1330	1310	1320	1330	1300	1320	1330	1300	1320
15	1320	1300	1310	1330	1310	1320	1330	1310	1320	1340	1310	1320
16	1320	1300	1310	1330	1310	1320	1330	1310	1320	1340	1320	1330
17	1320	1310	1310	1330	1310	1320	1330	1290	1320	1340	1320	1330
18	1320	1300	1310	1330	1310	1320	1340	810	1250	1330	1310	1330
19	1320	1310	1310	1330	1310	1320	1330	1300	1330	1330	1310	1320
20	1320	1310	1320	1330	1310	1320	1350	1280	1320	1350	1310	1320
21	1320	1300	1310	1330	1310	1320	1330	1310	1320	1360	1310	1320
22	1320	1300	1310	1340	1310	1320	1350	1320	1320	1330	1310	1320
23	1320	1300	1310	1330	1310	1320	1330	1320	1330	1360	1310	1320
24	1320	1300	1310	1340	1250	1310	1340	1320	1330	1330	1310	1320
25	1320	1300	1310	1360	1220	1320	1330	1300	1320	1330	1320	1320
26	1320	1300	1310	1330	1310	1320	1340	1310	1330	1330	1310	1320
27	1330	1300	1310	1330	1300	1320	1340	1320	1330	1330	1250	1300
28	1320	1300	1310	1330	1270	1310	1340	1320	1330	1320	1290	1310
29	1320	1300	1310	1330	1310	1320	1340	1320	1330	1330	1280	1310
30	1320	1300	1310	1330	1310	1320	1340	1320	1330	1330	1280	1310
31	---	---	---	1340	1310	1320	1340	1310	1330	---	---	---
MONTH	1360	1270	1310	1360	1220	1320	1350	810	1320	1360	1250	1320
YEAR	1360	583	1310									

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.3	8.7	9.7	10.7	8.9	9.6	12.2	9.2	10.2	11.6	8.6	9.5
2	10.9	8.4	9.1	10.7	8.7	9.4	11.9	9.1	10.0	11.7	8.8	9.8
3	11.2	8.2	9.1	10.7	8.6	9.4	10.6	9.1	9.8	11.7	9.0	9.8
4	10.0	8.6	9.0	10.7	8.6	9.4	12.0	8.8	9.9	11.8	8.8	9.8
5	10.9	8.6	9.4	10.8	8.5	9.5	11.5	8.9	9.6	11.8	8.6	9.5
6	10.8	8.7	9.5	10.8	8.4	9.4	11.4	8.8	9.7	12.0	8.6	9.9
7	10.7	8.5	9.5	10.6	8.5	9.3	11.4	8.8	9.6	11.8	9.4	10.2
8	10.4	8.5	9.0	11.2	8.8	9.6	11.4	8.8	9.7	12.0	9.6	10.1
9	10.9	8.7	9.5	11.2	8.8	9.7	11.3	8.8	9.7	12.4	9.4	10.4
10	10.9	8.5	9.5	11.4	8.8	9.8	11.2	8.8	9.4	12.3	9.2	10.2
11	10.6	8.6	9.2	11.4	8.8	9.8	11.1	8.4	9.3	12.2	9.0	10.1
12	11.0	8.6	9.4	11.7	8.8	9.7	11.4	8.5	9.5	12.5	9.2	10.2
13	11.0	8.5	9.4	12.1	8.6	9.6	10.8	8.6	9.3	12.5	9.1	10.1
14	11.0	8.7	9.5	11.6	8.5	9.5	11.0	8.7	9.3	12.4	9.3	10.3
15	11.0	8.6	9.3	11.8	8.5	9.5	11.0	8.5	9.1	12.6	9.2	10.3
16	11.0	8.7	9.6	11.5	8.7	9.6	11.1	8.9	9.7	12.6	9.1	10.1
17	10.8	8.9	9.5	11.7	8.8	9.8	11.5	9.3	10.0	12.6	9.0	10.0
18	11.0	9.0	9.6	12.2	8.9	9.8	11.6	9.0	10.0	12.8	8.8	10.0
19	10.9	8.9	9.6	12.2	9.1	10.2	11.5	8.7	9.6	12.5	8.7	10.0
20	10.9	8.8	9.6	12.3	8.8	10.0	11.3	8.7	9.4	13.3	9.0	10.3
21	10.9	8.9	9.7	12.2	8.8	9.9	10.9	8.7	9.3	12.2	8.8	10.0
22	11.1	9.0	9.8	12.0	8.6	9.7	11.6	9.0	9.8	12.8	9.1	10.3
23	11.0	8.8	9.7	12.4	8.6	9.6	11.9	9.6	10.3	12.8	9.2	10.4
24	10.3	8.7	9.3	12.0	8.6	9.7	11.8	9.2	10.2	13.1	8.9	10.3
25	10.9	8.9	9.6	10.8	8.8	9.5	11.4	9.1	9.8	12.8	8.8	10.2
26	10.9	8.8	9.6	12.0	9.3	10.1	11.7	8.9	9.9	12.4	8.2	9.8
27	10.9	8.8	9.6	12.2	8.9	10.0	11.4	8.9	9.8	12.5	8.6	10.0
28	10.8	8.7	9.5	12.2	9.0	10.1	11.6	9.2	10.1	13.3	8.2	10.1
29	10.7	8.6	9.2	11.7	8.8	9.7	11.8	8.7	9.8	12.8	8.7	10.0
30	11.2	8.7	9.6	12.0	9.0	10.0	11.8	8.6	9.5	12.9	9.2	10.3
31	11.0	8.8	9.8	---	---	---	11.8	8.7	9.7	12.2	9.0	10.1
MONTH	11.3	8.2	9.5	12.4	8.4	9.7	12.2	8.4	9.7	13.3	8.2	10.1

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.4	9.0	10.1	11.1	8.4	9.3						
2	12.3	9.1	10.2	10.7	8.6	9.4						
3	12.1	9.2	10.1	---	---	---						
4	12.2	9.5	10.4	---	---	---						
5	12.2	9.6	10.5	---	---	---						
6	12.3	9.6	10.6	---	---	---						
7	12.1	9.2	10.3	---	---	---						
8	11.8	9.1	10.0	---	---	---						
9	11.9	9.0	10.1	---	---	---						
10	11.6	9.0	9.9	---	---	---						
11	12.0	9.1	10.0	---	---	---						
12	12.0	9.0	10.2	---	---	---						
13	11.9	8.4	9.8	---	---	---						
14	12.0	7.4	9.4	---	---	---						
15	12.1	7.4	9.2	---	---	---						
16	11.4	7.7	9.2	---	---	---						
17	12.0	7.3	9.3	---	---	---						
18	11.7	8.0	9.5	---	---	---						
19	11.7	8.0	9.6	---	---	---						
20	11.7	8.3	9.6	---	---	---						
21	11.5	8.4	9.5	---	---	---						
22	11.3	8.4	9.4	---	---	---						
23	11.1	8.4	9.3	---	---	---						
24	10.9	8.4	9.5	---	---	---						
25	10.8	8.5	9.4	---	---	---						
26	10.7	8.5	9.5	---	---	---						
27	10.7	8.5	9.4	---	---	---						
28	10.8	8.5	9.4	---	---	---						
29	---	---	---	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	12.4	7.3	9.8	11.1	8.4	9.4						

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
YEAR	13.3	7.3	9.7									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
2	8.3	8.0	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
3	8.3	8.0	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
4	8.2	8.1	8.1	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
5	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
6	8.3	8.2	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
7	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2
8	8.2	8.1	8.1	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
9	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
10	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
11	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
12	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
13	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
14	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
15	8.3	8.1	8.1	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
16	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
17	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
18	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
19	8.3	8.1	8.2	8.4	8.2	8.2	8.4	8.1	8.2	8.4	8.1	8.2
20	8.3	8.2	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
21	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
22	8.3	8.1	8.2	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2
23	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
24	8.2	8.1	8.1	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
25	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
26	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.0	8.2
27	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
28	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.0	8.2
29	8.2	8.1	8.1	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.0	8.2
30	8.3	8.1	8.1	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.1	8.2
31	8.2	8.1	8.1	---	---	---	8.4	8.1	8.2	8.4	8.1	8.2
MONTH	8.3	8.0	8.2	8.4	8.1	8.2	8.4	8.1	8.2	8.4	8.0	8.2

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.1	8.2	8.3	8.1	8.1						
2	8.4	8.1	8.2	8.3	8.0	8.2						
3	8.3	8.1	8.2	---	---	---						
4	8.3	8.1	8.1	---	---	---						
5	8.3	8.1	8.2	---	---	---						
6	8.3	8.1	8.2	---	---	---						
7	8.3	8.1	8.2	---	---	---						
8	8.4	8.1	8.2	---	---	---						
9	8.4	8.1	8.2	---	---	---						
10	8.3	8.1	8.2	---	---	---						
11	8.4	8.1	8.2	---	---	---						
12	8.3	8.1	8.2	---	---	---						
13	8.4	8.0	8.2	---	---	---						
14	8.4	7.9	8.1	---	---	---						
15	8.3	7.9	8.1	---	---	---						
16	8.3	7.9	8.1	---	---	---						
17	8.3	7.9	8.1	---	---	---						
18	8.3	7.9	8.1	---	---	---						
19	8.3	7.9	8.1	---	---	---						
20	8.3	7.9	8.1	---	---	---						
21	8.3	7.9	8.1	---	---	---						
22	8.3	7.9	8.1	---	---	---						
23	8.3	8.0	8.1	---	---	---						
24	8.3	8.0	8.1	---	---	---						
25	8.3	8.1	8.1	---	---	---						
26	8.3	8.1	8.1	---	---	---						
27	8.3	8.0	8.1	---	---	---						
28	8.3	8.1	8.1	---	---	---						
29	---	---	---	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	8.4	7.9	8.1	8.3	8.0	8.2						

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK NR RIO BLANCO, CO STREAM SOURCE AGENCY USGS
LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
YEAR	8.4	7.9	8.2									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31			.00						.00			.00
MONTH			.00			.00			.00			.00

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29						.00			.00			.00
30						.00			.00			.00
31						.00						.00
MONTH			.00			.00			.00			.00

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			.00			.00			.00			.00
2			.00			.00			.02			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.21
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.02			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.03
30			.00			.00			.00			.01
31						.00			.00			
MONTH			.00			.00			.00			.01
YEAR	---	---	.00									

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

STATION NUMBER 09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394930 LONGITUDE 1081155 DRAINAGE AREA 3.62 DATUM 6372.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1									---			---
2									2290			---
3									---			---
4									---			---
5									---			---
6									---			---
7									---			---
8									---			---
9									---			2080
10									---			---
11									---			---
12									---			---
13									---			---
14									---			---
15									---			---
16									---			---
17									---			---
18									---			---
19									---			---
20									---			---
21									---			---
22									---			---
23									---			---
24									---			---
25									---			---
26									---			---
27									---			---
28									---			---
29									---			---
30									---			---
31									---			
MONTH									2290			2080
YEAR	---	---	2190									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394936 LONGITUDE 1081225 DRAINAGE AREA 1.20 DATUM 6353.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31			.00						.00			.00
MONTH			.00			.00			.00			.00

STATION NUMBER 09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394936 LONGITUDE 1081225 DRAINAGE AREA 1.20 DATUM 6353.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.10			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29						.00			.00			.00
30						.00			.00			.00
31						.00						.00
MONTH			.00			.00			.00			.00

STATION NUMBER 09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394936 LONGITUDE 1081225 DRAINAGE AREA 1.20 DATUM 6353.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31						.00			.00			
MONTH			.00			.00			.00			.00
YEAR	---	---	.00									

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										---	---	---
22										---	---	---
23										---	---	---
24										---	---	---
25										---	---	---
26										.0	.0	.0
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										.0	.0	.0

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---									
2	---	---	---									
3	---	---	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	3.0	.0	.0									
23	1.0	.0	.5									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	3.0	.0	.5									

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	29.5	14.0	20.5	27.5	11.5	17.0
2				---	---	---	25.0	16.5	19.0	27.0	10.5	17.0
3				---	---	---	27.5	15.5	20.5	27.0	10.0	17.0
4				16.5	10.5	14.5	29.5	14.5	20.0	25.0	11.5	17.0
5				22.5	10.5	16.0	29.5	14.0	20.0	25.0	14.5	17.5
6				27.0	9.5	17.0	30.5	14.5	20.5	27.0	12.0	17.0
7				27.5	9.5	16.5	31.0	14.5	20.0	22.0	12.5	15.5
8				24.0	10.5	16.5	28.5	15.0	20.0	23.0	12.5	16.5
9				26.5	10.0	17.5	29.5	15.5	20.5	21.0	12.0	16.0
10				29.5	10.5	18.0	28.5	14.5	19.0	23.5	13.5	16.5
11				29.5	13.0	18.5	28.5	16.0	19.0	16.0	12.5	14.0
12				30.0	10.0	18.5	22.0	16.5	18.0	21.5	11.5	14.0
13				28.0	10.0	18.0	23.5	15.5	18.0	14.0	10.5	11.5
14				28.5	10.5	18.0	26.0	16.0	20.5	15.0	9.5	11.5
15				27.0	11.5	17.5	28.5	16.0	20.5	22.0	9.5	13.5
16				27.5	12.0	18.0	28.0	16.5	21.0	23.5	9.0	14.5
17				27.0	15.0	19.0	30.5	15.5	19.5	21.5	11.5	15.0
18				28.0	13.0	19.5	31.5	16.0	22.0	23.5	10.5	14.5
19				29.5	12.5	19.0	31.0	15.5	21.0	20.5	11.5	14.5
20				28.0	12.5	18.5	29.5	16.0	20.5	23.0	11.0	15.0
21				28.5	13.5	20.0	30.0	17.5	21.0	24.0	11.0	15.5
22				30.5	16.0	21.5	25.5	16.5	19.5	23.5	11.5	15.5
23				29.5	16.0	21.5	29.5	15.0	20.0	24.5	11.0	15.5
24				27.5	16.0	20.0	30.5	16.0	20.5	23.0	10.0	15.0
25				29.0	15.5	20.0	22.5	15.0	18.0	18.5	12.0	15.0
26				29.0	16.5	20.0	26.5	13.5	18.5	21.0	14.0	16.0
27				26.5	17.5	21.0	25.5	13.5	18.0	16.5	9.5	13.0
28				23.5	17.0	18.5	25.5	14.0	18.5	13.5	9.0	10.5
29				28.0	17.0	20.5	25.0	14.5	18.5	15.0	8.5	11.0
30				30.5	15.0	20.5	27.5	14.0	18.5	15.5	9.0	12.0
31				30.0	14.0	20.5	25.0	11.5	17.0	---	---	---
MONTH				30.5	9.5	18.5	31.5	11.5	19.5	27.5	8.5	15.0
YEAR	31.5	.0	17.0									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.77			.00			.00			.00
4			.95			.00			.00			.00
5			.90			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.75			.00			.00			.00
9			.43			.00			.00			.00
10			.00			.00			.00			.00
11			.57			.00			.00			.00
12			.15			.00			.00			.00
13			.50			.00			.00			.00
14			.00			.00			.00			.00
15			.65			.00			.00			.00
16			.63			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.07
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31			.00						.00			.00
MONTH			.20			.00			.00			.00

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.10			.00			.00			.00
23			.15			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29						.00			.00			.00
30						.00			.00			.00
31						.00						.00
MONTH			.01			.00			.00			.00

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			.00			.00			.71			.80
2			.00			.00			2.3			.60
3			.00			.00			.96			.27
4			.00			.06			1.0			.39
5			.00			.73			.77			.49
6			.00			1.3			.93			.44
7			.00			1.5			.67			.41
8			.00			1.3			.77			.37
9			.00			.60			.67			.37
10			.00			.70			.67			.32
11			.00			.77			.58			.97
12			.00			.90			1.0			.53
13			.00			1.2			.97			1.0
14			.00			.80			.82			1.1
15			.00			.77			.71			.88
16			.00			.77			.62			.38
17			.00			.82			.52			.54
18			.00			.77			.86			.70
19			.00			.77			.99			.77
20			.00			.77			.88			.69
21			.00			.82			.79			.72
22			.00			.82			.80			.71
23			.00			.77			.92			.67
24			.00			.82			.92			.70
25			.00			.77			.84			.70
26			.00			.71			1.0			.70
27			.00			.53			1.1			.80
28			.00			.67			1.1			.80
29			.00			.67			.91			.80
30			.00			.71			.85			.80
31						.71			.72			
MONTH			.00			.73			.88			.65
YEAR	---	---	.21									

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										---	---	---
22										---	---	---
23										---	---	---
24										---	---	---
25										---	---	---
26										230	220	220
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										230	220	220

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---									
2	---	---	---									
3	---	---	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	330	290	300									
23	330	300	315									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	330	290	308									

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	2040	1890	1950	---	---	---
2				---	---	---	1980	586	1790	---	---	---
3				---	---	---	1960	1830	1890	---	---	---
4				1990	1930	1960	---	---	---	---	---	---
5				---	---	---	---	---	---	---	---	---
6				---	---	---	---	---	---	---	---	---
7				---	---	---	---	---	---	---	---	---
8				---	---	---	---	---	---	---	---	---
9				---	---	---	---	---	---	---	---	---
10				2030	1910	1970	---	---	---	---	---	---
11				2010	1880	1920	---	---	---	---	---	---
12				---	---	---	---	---	---	---	---	---
13				---	---	---	---	---	---	---	---	---
14				2010	1890	1950	---	---	---	---	---	---
15				2000	1820	1900	---	---	---	1960	1890	1910
16				2090	1890	1940	---	---	---	2000	1870	1950
17				2100	1900	1950	1990	1870	1940	2000	1700	1800
18				2030	1900	1950	2060	1920	1970	1960	1730	1840
19				---	---	---	2060	1900	1960	2080	1980	2050
20				1980	1900	1940	2060	1930	1970	2100	2000	2040
21				2030	1900	1960	2050	1940	1970	2120	2010	2040
22				2120	1920	2020	2000	1920	1950	2100	2030	2050
23				2090	1930	2000	2040	1880	1940	2120	1990	2040
24				2030	1900	1960	2060	1870	1960	2030	1930	1990
25				2000	1430	1880	1970	1860	1920	2020	1950	1980
26				2020	1900	1930	2010	1860	1920	2080	1970	2020
27				1990	1910	1950	1910	1810	1860	2040	1910	1990
28				1950	1810	1890	2000	1860	1930	2040	1860	1950
29				2000	1900	1930	2050	1910	1980	2010	1750	1940
30				2030	1880	1940	2090	1950	2000	2000	1800	1930
31				2040	1870	1940	2050	1910	1960	---	---	---
MONTH				2120	1430	1940	2090	586	1940	2120	1700	1970
YEAR	2120	220	1860									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394851 LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.59			.00			.00			.00
2			.00			.00			.00			.00
3			1.2			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31			.00						.00			.00
MONTH			.06			.00			.00			.00

STATION NUMBER 09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394851 LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			1.6			.00			.00			.00
21			.59			.00			.00			.00
22			1.0			.00			.00			.00
23			.59			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29						.00			.00			.00
30						.00			.00			.00
31						.00						.00
MONTH			.14			.00			.00			.00

STATION NUMBER 09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394851 LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			.00			.00			.00			.00
2			.00			.00			.00			.00
3			.00			.00			.00			.00
4			.00			.00			.00			.00
5			.00			.00			.00			.00
6			.00			.00			.00			.00
7			.00			.00			.00			.00
8			.00			.00			.00			.00
9			.00			.00			.00			.00
10			.00			.00			.00			.00
11			.00			.00			.00			.00
12			.00			.00			.00			.00
13			.00			.00			.00			.00
14			.00			.00			.00			.00
15			.00			.00			.00			.00
16			.00			.00			.00			.00
17			.00			.00			.00			.00
18			.00			.00			.00			.00
19			.00			.00			.00			.00
20			.00			.00			.00			.00
21			.00			.00			.00			.00
22			.00			.00			.00			.00
23			.00			.00			.00			.00
24			.00			.00			.00			.00
25			.00			.00			.00			.00
26			.00			.00			.00			.00
27			.00			.00			.00			.00
28			.00			.00			.00			.00
29			.00			.00			.00			.00
30			.00			.00			.00			.00
31						.00			.00			
MONTH			.00			.00			.00			.00
YEAR	---	---	.02									

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.0	5.0	9.5	6.0	.0	2.5	---	---	---	2.5	.0	1.0
2	11.5	8.0	9.5	7.5	.5	3.5	---	---	---	2.0	.0	.0
3	13.0	9.0	10.0	8.0	1.0	4.0	---	---	---	.0	.0	.0
4	9.5	8.0	9.0	8.5	3.5	6.0	1.5	.0	1.0	.5	.0	.0
5	11.5	7.5	9.0	8.5	1.5	4.5	4.5	.5	2.5	3.0	.0	1.5
6	13.5	5.0	8.5	8.0	2.0	5.0	4.5	.0	2.0	1.5	.0	.5
7	13.5	5.5	9.0	8.5	4.5	6.0	5.5	.0	2.5	1.5	.0	.5
8	9.5	8.0	8.5	7.5	2.0	4.5	5.5	.0	2.5	.0	.0	.0
9	10.5	6.0	8.0	7.5	.5	3.5	4.5	.0	2.0	.0	.0	.0
10	12.5	6.0	8.5	6.5	.5	3.0	6.5	1.0	3.0	1.5	.0	.5
11	9.5	6.5	8.0	7.0	.0	3.0	6.0	1.5	3.5	1.0	.0	.5
12	11.0	5.0	7.5	7.0	.5	3.5	5.0	.0	2.5	1.5	.0	.5
13	11.0	5.0	7.5	8.5	2.0	5.0	3.5	1.5	2.0	1.5	.5	1.0
14	10.5	6.5	8.0	8.5	4.0	5.5	3.5	.0	1.5	1.5	.0	1.0
15	7.0	5.5	6.5	7.5	3.5	5.5	5.0	1.5	3.0	2.0	.0	1.0
16	8.5	4.5	6.5	8.5	2.5	5.0	2.0	.0	.5	3.5	.5	1.5
17	9.5	5.0	7.0	7.0	1.5	4.0	1.5	.0	.0	3.0	1.0	2.0
18	10.5	3.5	6.5	4.5	2.0	3.5	.0	.0	.0	3.0	1.5	2.0
19	10.0	2.5	5.5	3.5	.0	1.5	3.5	.0	2.0	3.5	.5	2.0
20	10.5	2.5	6.0	2.5	.0	1.0	6.0	2.0	3.5	3.5	.5	2.0
21	9.5	2.0	5.5	4.5	.0	2.5	3.0	1.0	2.5	1.5	.5	1.0
22	8.5	1.5	4.5	6.0	1.5	4.0	1.5	.0	.5	2.0	.0	1.0
23	8.5	1.0	4.5	7.0	3.5	4.5	.0	.0	.0	1.0	.0	.5
24	5.5	4.0	4.5	7.5	2.5	4.5	4.5	.0	1.0	2.5	.5	1.5
25	8.5	3.0	5.0	3.5	.0	1.5	.0	.0	.0	4.0	.5	2.0
26	9.0	2.0	5.0	.0	.0	.0	.0	.0	.0	5.0	2.0	3.0
27	10.0	3.0	6.0	.0	.0	.0	.0	.0	.0	5.0	1.5	2.5
28	9.0	3.5	6.0	.0	.0	.0	1.5	.0	.5	4.5	.0	2.0
29	7.5	4.0	6.5	.0	.0	.0	.0	.0	.0	3.5	1.0	2.5
30	5.0	1.5	3.0	.0	.0	.0	1.5	.0	.0	2.5	.0	1.0
31	5.0	.0	2.0	---	---	---	1.5	.0	.5	3.5	.0	1.5
MONTH	14.0	.0	7.0	8.5	.0	3.0	6.5	.0	1.5	5.0	.0	1.0

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	.5	1.5	---	---	---	9.5	4.0	6.0	14.5	7.0	10.5
2	3.5	.0	1.5	---	---	---	9.5	2.0	5.5	14.5	7.0	11.0
3	2.0	.0	1.0	---	---	---	11.5	2.0	6.5	---	---	---
4	.5	.0	.0	---	---	---	10.5	3.5	6.5	---	---	---
5	.0	.0	.0	7.0	.5	3.5	9.5	1.0	5.0	---	---	---
6	.0	.0	.0	9.5	.0	3.0	10.5	3.5	6.0	19.5	5.0	13.5
7	.0	.0	.0	10.5	1.5	5.0	5.5	.0	3.0	15.5	2.5	8.5
8	1.0	.0	.5	9.0	1.0	4.0	9.5	.0	3.5	18.5	6.5	11.0
9	1.0	.0	.0	10.0	.5	5.0	14.0	.0	5.5	18.0	7.0	11.0
10	1.5	.0	.5	8.0	2.5	5.0	14.5	.0	6.0	16.5	5.5	10.0
11	2.5	.5	1.0	10.0	3.5	6.0	14.5	3.5	8.5	17.0	4.5	9.5
12	2.5	.0	1.0	12.0	4.0	6.5	12.5	6.0	9.0	7.0	1.0	4.0
13	4.0	.5	2.0	13.5	.5	6.0	18.0	3.5	10.0	16.5	2.5	7.5
14	4.5	2.5	3.0	9.5	2.0	5.5	18.0	2.5	9.5	19.0	5.0	10.0
15	5.0	2.5	3.5	11.0	4.5	7.0	14.5	2.5	7.5	20.0	5.0	11.5
16	4.5	2.0	3.0	9.5	4.0	6.0	15.5	.5	7.0	25.0	5.0	12.5
17	6.0	1.5	3.0	10.5	2.5	6.0	17.0	.0	7.5	22.5	4.5	12.5
18	6.0	1.0	3.0	10.0	3.0	6.5	14.5	1.5	7.5	21.5	5.5	12.5
19	---	---	---	5.5	2.0	3.5	10.5	.0	4.5	19.5	6.5	12.0
20	---	---	---	6.5	1.0	3.5	6.0	.0	2.5	24.5	5.0	13.5
21	---	---	---	5.0	.5	2.5	13.5	.0	5.0	27.5	3.0	13.5
22	---	---	---	8.5	.5	3.5	17.0	.5	8.0	22.0	4.0	12.5
23	---	---	---	11.0	.0	5.0	12.5	4.0	7.5	27.5	6.0	15.0
24	---	---	---	12.0	1.0	6.0	17.5	3.5	10.0	23.5	5.5	13.0
25	---	---	---	12.0	1.5	6.5	14.5	4.5	9.5	26.5	4.5	13.0
26	---	---	---	7.0	4.5	6.0	13.0	5.0	8.5	---	---	---
27	---	---	---	9.5	4.5	6.5	14.5	6.0	9.5	---	---	---
28	---	---	---	10.5	4.0	7.0	18.5	4.0	10.5	---	---	---
29	---	---	---	7.0	4.0	4.5	14.5	5.0	9.5	---	---	---
30	---	---	---	6.0	1.5	3.5	15.5	3.5	9.5	---	---	---
31	---	---	---	10.5	1.0	5.0	---	---	---	---	---	---
MONTH	6.0	.0	1.5	13.5	.0	5.0	18.5	.0	7.0	27.5	1.0	11.5

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	24.0	11.0	16.0	29.0	9.5	18.0	20.0	8.0	13.0
2	---	---	---	25.5	6.5	14.5	18.5	13.0	15.5	19.5	7.0	12.0
3	---	---	---	27.0	7.0	15.0	24.5	11.5	16.5	19.5	7.0	12.0
4	---	---	---	30.5	7.0	15.0	26.5	9.5	16.0	18.5	7.0	12.5
5	---	---	---	26.5	7.0	13.0	23.0	8.5	14.5	19.0	11.0	13.5
6	---	---	---	27.5	5.5	13.0	23.5	8.5	15.0	18.0	8.0	12.5
7	---	---	---	27.5	6.5	13.0	22.0	9.5	14.5	15.0	8.5	11.0
8	---	---	---	27.5	10.5	14.0	20.0	10.0	14.0	16.0	9.0	11.5
9	23.5	9.0	17.5	28.5	7.5	14.5	21.0	10.0	14.5	15.0	8.5	11.0
10	20.5	4.0	12.5	25.0	6.0	15.0	21.0	9.0	14.0	15.5	9.5	12.0
11	25.0	5.5	14.5	23.5	10.5	15.5	20.5	10.5	14.0	11.5	9.5	10.5
12	20.0	8.0	13.5	24.5	9.5	16.0	15.0	11.0	12.5	14.0	8.0	10.5
13	20.0	8.5	13.5	23.0	10.5	16.0	15.5	10.0	12.0	10.0	8.0	9.0
14	16.0	7.0	11.0	27.0	7.5	16.0	21.5	10.5	14.5	10.5	6.5	8.5
15	18.5	6.5	12.5	26.0	7.0	15.0	22.0	9.5	14.5	15.5	7.5	11.0
16	27.0	7.0	15.5	27.5	7.0	15.5	19.5	10.0	14.0	16.5	7.0	11.0
17	25.0	10.5	16.5	27.0	11.0	17.0	19.0	9.5	13.5	17.0	9.0	12.0
18	19.5	10.0	14.5	29.0	9.0	17.5	22.0	10.0	15.0	14.5	7.0	10.0
19	23.0	7.5	14.0	29.5	8.5	17.0	22.0	9.5	14.5	14.0	7.5	10.0
20	25.5	7.0	15.0	25.5	8.0	16.0	19.0	9.5	14.0	16.0	8.0	11.0
21	17.0	9.0	13.5	26.5	8.5	17.0	21.0	11.0	14.5	17.0	8.0	11.5
22	18.5	10.0	13.5	27.5	11.5	19.0	16.0	11.0	13.0	16.0	6.0	11.5
23	20.0	9.0	14.0	28.5	11.0	18.5	19.5	9.5	13.5	16.5	9.0	12.0
24	28.0	8.0	17.0	25.5	11.5	17.5	21.5	10.5	14.5	15.5	7.0	11.0
25	22.5	8.5	14.0	25.0	10.5	17.0	16.0	10.0	12.5	13.0	9.5	11.0
26	27.5	6.5	16.0	24.0	12.0	17.5	18.5	10.0	13.5	15.5	10.5	12.0
27	29.5	8.0	17.5	25.0	12.0	17.5	18.0	9.0	12.5	12.0	9.0	11.0
28	26.5	9.0	16.5	18.0	12.5	15.0	18.0	9.0	13.0	10.0	7.5	8.5
29	24.5	8.5	16.0	26.5	12.0	17.5	18.0	10.0	13.0	10.5	6.5	8.0
30	24.0	11.5	16.0	28.5	10.5	18.0	20.0	9.0	13.5	10.5	7.0	9.0
31	---	---	---	29.0	9.5	18.0	16.5	9.0	12.5	---	---	---
MONTH	29.5	4.0	15.0	30.5	5.5	16.0	29.0	8.5	14.0	20.0	6.0	11.0
YEAR	30.5	.0	8.0									

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			1.2			1.4			1.2			.90
2			1.2			1.4			1.4			.90
3			1.4			1.4			1.5			.80
4			1.4			1.4			1.4			.78
5			1.6			1.4			1.4			.40
6			1.3			1.4			1.4			1.1
7			1.2			1.4			1.4			1.1
8			1.4			1.4			1.4			1.8
9			1.4			1.4			1.4			1.5
10			1.3			1.4			1.4			1.4
11			1.3			1.4			1.4			1.7
12			1.4			1.4			1.4			1.9
13			1.4			1.5			1.4			1.9
14			1.4			1.4			1.4			1.9
15			1.5			1.5			1.4			1.9
16			1.6			1.4			1.4			1.9
17			1.3			1.4			1.4			2.0
18			1.4			1.5			1.3			1.9
19			1.3			1.4			1.6			1.9
20			1.3			1.4			1.6			2.0
21			1.4			1.5			1.6			2.0
22			1.3			1.5			1.5			2.1
23			1.3			1.5			1.0			1.8
24			1.4			1.5			1.2			2.2
25			1.4			1.5			1.2			2.2
26			1.3			1.3			1.2			2.5
27			1.3			1.4			1.3			2.2
28			1.3			1.4			1.2			2.3
29			1.5			1.4			1.2			2.1
30			1.4			1.3			1.2			2.0
31			1.2						1.0			2.1
MONTH			1.4			1.4			1.4			1.7

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			2.2			3.1			2.9			2.5
2			2.2			3.0			2.9			2.5
3			2.1			3.0			2.9			2.5
4			2.0			2.9			2.9			1.4
5			2.0			2.7			2.9			.19
6			2.0			2.5			2.8			.15
7			2.0			2.5			2.9			.11
8			2.2			2.5			2.5			.18
9			2.5			2.5			2.7			.38
10			2.7			2.8			2.8			.15
11			2.7			2.8			2.9			.08
12			2.8			2.9			2.9			.18
13			2.8			2.9			2.9			.27
14			2.8			3.0			2.9			.07
15			3.0			3.0			2.9			.18
16			3.2			3.0			2.9			.12
17			3.7			3.0			2.8			.05
18			3.7			3.0			2.9			.12
19			4.0			3.0			2.9			.03
20			4.4			2.9			2.5			.05
21			4.4			2.9			2.5			.04
22			4.5			3.0			2.8			.04
23			4.1			3.0			2.8			.03
24			3.7			3.0			2.5			.04
25			3.5			2.9			2.5			.04
26			3.5			3.0			2.5			.08
27			3.4			3.0			2.6			.14
28			3.2			2.9			2.5			.10
29						2.9			2.5			.23
30						2.8			2.5			.32
31						2.9						.23
MONTH			3.1			2.9			2.8			.40

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			.81			.62			.08			.73
2			1.0			.43			.32			.73
3			1.1			.50			.38			.72
4			1.5			.78			.36			.70
5			1.8			.81			.40			.74
6			.88			.88			.43			.70
7			.40			.81			.48			.68
8			.38			.88			.50			.71
9			.23			.88			.56			.75
10			.22			.88			.59			.75
11			.43			.96			.59			1.0
12			.78			1.0			.71			.89
13			.88			.38			.71			1.1
14			.88			.15			.71			.96
15			.81			.15			.65			.87
16			.62			.13			.65			.75
17			.96			.13			.74			.74
18			1.0			.13			.74			.76
19			.96			.12			.72			.96
20			.68			.12			.68			.93
21			.62			.11			.67			.96
22			1.2			.10			.68			1.1
23			1.1			.10			.69			1.0
24			.10			.11			.75			1.0
25			.13			.11			.68			1.0
26			.14			.10			.74			1.1
27			.17			.14			.78			1.1
28			.34			.15			.79			1.2
29			.34			.11			.84			1.2
30			.40			.09			.79			1.1
31						.08			.76			
MONTH			.70			.39			.62			.90
YEAR	---	---	1.5									

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1340	1250	1280	1340	1240	1290	---	---	---	1250	1180	1220
2	1330	1270	1300	1320	1250	1290	---	---	---	1300	1190	1250
3	1310	1260	1290	1320	1260	1290	---	---	---	1290	1230	1260
4	1320	1230	1280	1320	1250	1270	1310	1230	1260	1370	1270	1330
5	1340	1240	1310	1300	1230	1270	1260	1230	1240	1340	1290	1320
6	1360	1270	1320	1280	1210	1240	1260	1190	1230	1370	1300	1330
7	1340	1260	1300	1250	1210	1230	1260	1190	1230	1470	1260	1360
8	1320	1260	1280	1250	1210	1230	1250	1190	1220	1410	1310	1360
9	1360	1310	1330	1270	1220	1240	1260	1180	1220	1330	1250	1300
10	1350	1270	1310	1320	1240	1260	1220	1170	1200	1320	1230	1280
11	1320	1220	1290	1280	1230	1250	1220	1170	1200	1260	1210	1240
12	1320	1260	1300	1270	1220	1250	1220	1150	1190	1260	1210	1230
13	1320	1250	1290	1270	1220	1240	1210	1170	1180	1260	1220	1240
14	1310	1260	1290	1260	1220	1240	1210	1090	1180	1270	1210	1240
15	1320	1180	1260	1270	1220	1240	1200	1140	1170	1270	1220	1240
16	1320	1220	1300	1380	1210	1250	1230	1160	1200	1250	1210	1230
17	1320	1260	1290	1320	1250	1280	1260	1160	1210	1260	1200	1240
18	1320	1250	1280	1310	1230	1290	1360	1190	1270	1250	1220	1240
19	1310	1240	1280	1350	1270	1310	1220	1180	1200	1260	1220	1240
20	1310	1250	1280	1350	1250	1300	1230	1160	1200	1260	1220	1240
21	1310	1240	1280	1310	1280	1290	1210	1170	1200	1260	1210	1230
22	1310	1250	1280	1310	1270	1290	1260	1190	1220	1260	1200	1230
23	1300	1250	1280	1300	1260	1280	1350	1250	1290	1320	1220	1260
24	1300	1260	1280	1300	1270	1280	1410	1330	1360	1240	1160	1210
25	1300	1250	1280	1340	1280	1310	1350	1240	1290	1260	1190	1220
26	1310	1240	1280	1360	1260	1310	1410	1260	1320	1240	1030	1150
27	1300	1240	1270	1270	1170	1200	1270	1200	1240	1230	1070	1190
28	1300	1240	1270	1190	1180	1190	1360	1260	1320	1280	1100	1200
29	1280	1240	1260	1210	1190	1200	1330	1220	1290	1240	1140	1210
30	1270	1190	1230	1250	1210	1230	1230	1160	1200	1310	1190	1250
31	1310	1230	1280	---	---	---	1270	1200	1240	1260	1180	1230
MONTH	1360	1180	1290	1380	1170	1260	1410	1090	1230	1470	1030	1250

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1240	1200	1220	---	---	---	---	---	---	1250	1170	1210
2	1270	1200	1230	---	---	---	---	---	---	---	---	---
3	1260	1180	1230	---	---	---	---	---	---	---	---	---
4	1370	1250	1310	---	---	---	---	---	---	---	---	---
5	1390	1320	1350	1230	1200	1210	---	---	---	---	---	---
6	1420	1290	1350	1240	1210	1220	1210	1170	1190	1280	1200	1240
7	1320	1210	1270	1250	1200	1220	1220	1150	1190	1280	1210	1240
8	1260	1190	1230	1240	1200	1220	1240	1140	1190	1320	1130	1220
9	1300	1200	1250	1240	1190	1220	1240	1180	1200	1130	1020	1070
10	1240	1170	1200	1240	1180	1220	1230	1170	1200	1140	1090	1120
11	1240	1170	1200	1230	1140	1200	1230	1150	1200	1150	1070	1110
12	1270	1160	1240	1220	1170	1200	1220	1160	1200	1170	910	1080
13	1290	1160	1210	1230	1210	1220	1230	1170	1200	1130	990	1050
14	1210	1140	1180	---	---	---	1230	1150	1200	1230	1120	1170
15	1480	984	1150	---	---	---	1230	1180	1210	1250	1210	1240
16	1220	924	1110	---	---	---	1230	1170	1200	1310	1240	1260
17	1200	630	1030	---	---	---	1240	1140	1180	1300	1210	1260
18	1250	892	1110	---	---	---	1190	1130	1160	1300	1240	1270
19	---	---	---	---	---	---	1180	1130	1160	1290	1170	1250
20	---	---	---	---	---	---	1240	1180	1210	1290	1190	1250
21	---	---	---	---	---	---	1280	1110	1170	1290	1220	1260
22	---	---	---	---	---	---	1230	1100	1160	1280	1130	1210
23	---	---	---	---	---	---	1240	1200	1220	1260	1120	1170
24	---	---	---	---	---	---	1250	1180	1200	1200	1140	1170
25	---	---	---	---	---	---	1240	1190	1210	1200	1170	1180
26	---	---	---	---	---	---	1250	1170	1210	---	---	---
27	---	---	---	---	---	---	1250	1190	1220	---	---	---
28	---	---	---	---	---	---	1250	1180	1220	---	---	---
29	---	---	---	---	---	---	1240	1190	1220	---	---	---
30	---	---	---	---	---	---	1260	1180	1210	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1480	630	1220	1250	1140	1210	1280	1100	1200	1320	910	1190

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	1320	1250	1290	1350	1290	1300
2	---	---	---	---	---	---	1370	1150	1300	---	---	---
3	---	---	---	---	---	---	1360	1320	1350	1310	1290	1310
4	---	---	---	---	---	---	1320	1270	1310	1310	1280	1300
5	---	---	---	---	---	---	1310	1270	1300	1310	1240	1290
6	---	---	---	---	---	---	1320	1260	1290	1310	1270	1300
7	---	---	---	---	---	---	1320	1260	1290	---	---	---
8	---	---	---	---	---	---	1320	1250	1290	---	---	---
9	---	---	---	---	---	---	1310	1250	1290	---	---	---
10	1440	1340	1400	---	---	---	1310	1240	1280	1300	1220	1280
11	1640	1350	1400	---	---	---	1310	1230	1280	1290	1150	1220
12	1380	1330	1350	1300	1280	1290	1300	1220	1280	1290	1240	1270
13	1360	1320	1340	1330	1270	1300	1320	1200	1270	1260	1210	1250
14	1390	1240	1340	1330	1300	1320	1320	1240	1290	1280	1250	1270
15	---	---	---	1330	1300	1320	1310	1240	1290	1310	1250	1270
16	---	---	---	1330	1300	1320	1310	1250	1290	1310	1300	1310
17	---	---	---	1330	1290	1310	1320	1210	1280	1310	1290	1300
18	---	---	---	1330	1280	1310	1330	1270	1310	1310	1270	1290
19	---	---	---	1320	1270	1310	1330	1260	1300	1300	1180	1260
20	---	---	---	1320	1270	1300	1320	1270	1300	1300	1250	1280
21	---	---	---	1320	1270	1300	1320	1250	1300	1370	1280	1300
22	---	---	---	1320	1260	1300	1320	1290	1310	1290	1270	1280
23	---	---	---	1320	1260	1300	1320	1270	1310	1280	1270	1270
24	---	---	---	1320	1240	1290	1320	1260	1300	1280	1260	1270
25	---	---	---	1320	1250	1290	1310	1270	1290	1270	1260	1260
26	---	---	---	1310	1250	1290	1320	1280	1300	1280	1250	1260
27	---	---	---	1330	1060	1270	1330	1300	1320	1270	1200	1240
28	---	---	---	1350	1110	1280	1330	1290	1310	1260	1160	1240
29	---	---	---	1320	1260	1290	1320	1300	1310	1270	1220	1260
30	---	---	---	1310	1250	1290	1320	1290	1300	1270	1220	1250
31	---	---	---	1430	1250	1290	1310	1300	1310	---	---	---
MONTH	1640	1240	1370	1430	1060	1300	1370	1150	1300	1370	1150	1270
YEAR	1640	630	1250									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.0	8.6	9.3	11.6	10.0	10.8	---	---	---	10.4	10.0	10.2
2	10.0	8.6	9.2	11.6	9.8	10.6	---	---	---	10.7	9.6	10.1
3	9.7	8.5	8.9	11.5	9.7	10.5	---	---	---	10.8	10.4	10.5
4	9.5	8.8	9.0	11.3	8.9	10.1	11.5	10.6	10.8	11.0	10.4	10.7
5	10.1	8.8	9.3	11.3	9.3	10.3	11.2	10.2	10.5	11.0	10.2	10.7
6	10.5	8.5	9.4	11.1	9.2	10.1	11.1	10.0	10.5	10.7	10.3	10.5
7	10.2	8.3	9.2	10.9	9.1	9.9	11.2	9.9	10.5	11.0	10.2	10.6
8	9.8	8.7	9.0	11.4	9.7	10.4	11.3	9.9	10.6	10.6	10.3	10.5
9	10.3	8.7	9.4	11.4	9.7	10.5	11.3	10.0	10.6	10.5	10.1	10.3
10	10.1	8.3	9.3	11.5	9.5	10.5	11.2	9.8	10.4	10.5	10.3	10.4
11	9.8	8.8	9.1	11.4	9.7	10.5	11.2	9.7	10.4	11.0	10.4	10.7
12	10.2	8.5	9.3	11.6	9.8	10.5	11.5	9.9	10.5	10.8	10.6	10.7
13	10.2	8.5	9.2	11.4	9.6	10.4	11.1	10.2	10.6	10.9	10.6	10.7
14	10.1	8.6	9.2	11.3	9.5	10.2	11.6	10.3	10.7	11.2	8.7	10.2
15	10.2	9.0	9.3	12.0	10.0	11.0	11.3	10.0	10.5	10.3	10.0	10.2
16	10.4	8.9	9.5	11.6	10.1	10.7	11.7	10.4	10.9	10.3	9.8	10.1
17	10.4	8.7	9.4	12.1	10.4	11.1	11.6	10.7	11.0	10.3	9.9	10.1
18	10.5	8.7	9.5	11.1	9.7	10.2	11.5	10.6	10.9	10.1	9.8	10.0
19	10.6	8.7	9.6	11.6	10.0	10.6	11.4	10.0	10.7	10.9	9.8	10.1
20	10.6	8.7	9.6	11.5	10.0	10.6	11.0	9.7	10.2	11.2	8.7	10.5
21	10.6	8.8	9.7	11.4	10.0	10.5	11.0	9.9	10.3	10.5	10.1	10.3
22	10.8	9.1	9.9	11.3	9.6	10.3	11.3	10.3	10.6	10.9	10.2	10.4
23	10.9	9.0	9.9	11.3	9.6	10.2	11.9	10.3	10.8	11.4	10.6	11.0
24	10.4	9.4	9.8	11.5	9.4	10.3	11.5	9.7	10.8	11.4	10.8	11.1
25	10.8	9.2	9.9	11.3	10.0	10.7	11.5	10.3	10.9	11.5	10.0	10.7
26	11.0	9.2	10.0	---	---	---	10.8	10.2	10.4	10.8	9.7	10.3
27	11.0	9.0	9.9	---	---	---	11.1	10.2	10.6	11.2	9.8	10.4
28	10.8	9.0	9.9	---	---	---	10.8	10.2	10.5	10.5	9.7	10.0
29	10.6	9.3	9.7	---	---	---	10.8	10.2	10.4	10.4	9.9	10.1
30	11.4	9.9	10.5	---	---	---	11.0	10.2	10.5	10.6	10.2	10.5
31	11.4	10.0	10.7	---	---	---	11.0	10.2	10.6	10.7	9.9	10.3
MONTH	11.4	8.3	9.5	12.1	8.9	10.5	11.9	9.7	10.6	11.5	8.7	10.4

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.7	10.0	10.3									
2	10.6	10.0	10.3									
3	10.5	10.1	10.4									
4	10.5	10.2	10.4									
5	10.5	10.4	10.5									
6	10.8	10.5	10.6									
7	10.8	10.4	10.5									
8	11.5	10.5	11.1									
9	11.5	10.5	10.8									
10	10.8	10.4	10.5									
11	10.8	10.2	10.4									
12	11.2	10.4	10.7									
13	11.3	10.3	10.8									
14	10.9	10.3	10.7									
15	11.3	9.8	10.6									
16	10.2	9.8	10.1									
17	10.5	8.1	10.0									
18	10.8	9.4	10.1									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	11.5	8.1	10.5									

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
YEAR	12.1	8.1	10.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.7	8.2	8.5	8.4	8.2	8.2	---	---	---	8.4	8.3	8.3
2	8.6	8.4	8.5	8.3	8.2	8.2	---	---	---	8.4	8.3	8.3
3	8.5	8.4	8.5	8.4	8.2	8.2	---	---	---	8.4	8.3	8.3
4	8.5	8.4	8.4	---	---	---	8.3	8.2	8.3	8.4	8.3	8.3
5	8.5	8.4	8.4	---	---	---	8.3	8.3	8.3	8.4	8.3	8.3
6	8.5	8.3	8.4	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
7	8.4	8.3	8.4	---	---	---	8.4	8.3	8.3	8.3	8.2	8.2
8	8.4	8.3	8.4	---	---	---	8.4	8.3	8.3	8.3	8.1	8.2
9	8.4	8.3	8.4	---	---	---	8.4	8.3	8.3	8.3	8.2	8.2
10	8.4	8.3	8.3	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
11	8.4	8.3	8.3	---	---	---	8.4	8.3	8.3	8.3	8.2	8.3
12	8.3	8.3	8.3	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
13	8.3	8.2	8.3	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
14	8.3	8.2	8.2	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
15	8.4	8.2	8.2	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
16	8.3	8.1	8.1	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3
17	8.2	8.1	8.1	8.5	8.5	8.5	8.4	8.3	8.3	8.4	8.3	8.3
18	8.3	8.1	8.2	8.6	8.4	8.5	8.4	8.3	8.3	8.4	8.3	8.3
19	8.4	8.2	8.2	8.6	8.4	8.5	8.4	8.3	8.3	8.3	8.3	8.3
20	8.4	8.2	8.3	8.6	8.4	8.4	8.4	8.3	8.3	8.4	8.3	8.4
21	8.4	8.2	8.3	8.5	8.3	8.4	8.4	8.3	8.3	8.4	8.3	8.3
22	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.3	8.3	8.3
23	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.2	8.3	8.4	8.3	8.3
24	8.3	8.2	8.2	8.4	8.2	8.3	8.3	8.1	8.2	8.4	8.3	8.3
25	8.3	8.2	8.2	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3
26	8.4	8.2	8.3	8.3	8.2	8.3	8.3	8.2	8.3	8.4	8.3	8.4
27	8.4	8.2	8.3	8.3	8.2	8.2	8.4	8.2	8.3	8.4	8.3	8.4
28	8.4	8.2	8.3	8.2	8.2	8.2	8.3	8.2	8.2	8.4	8.3	8.4
29	8.3	8.2	8.3	8.2	8.2	8.2	8.3	8.2	8.2	8.5	8.3	8.4
30	8.5	8.2	8.3	8.2	8.1	8.1	8.4	8.2	8.3	8.4	8.4	8.4
31	8.4	8.1	8.3	---	---	---	8.4	8.3	8.3	8.4	8.4	8.4
MONTH	8.7	8.1	8.3	8.6	8.1	8.3	8.4	8.1	8.3	8.5	8.1	8.3

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.4	8.4									
2	8.4	8.4	8.4									
3	8.5	8.4	8.4									
4	8.4	8.2	8.4									
5	8.4	8.3	8.3									
6	8.4	8.2	8.3									
7	8.4	8.3	8.3									
8	8.4	8.3	8.4									
9	8.5	8.3	8.4									
10	8.5	8.4	8.4									
11	8.5	8.4	8.4									
12	8.5	8.4	8.4									
13	8.5	8.4	8.4									
14	8.5	8.4	8.5									
15	8.5	8.4	8.5									
16	8.6	8.4	8.5									
17	8.6	8.3	8.5									
18	8.5	8.4	8.4									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	8.6	8.2	8.4									

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
YEAR	8.7	8.1	8.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	7.0	11.0	---	---	---	1.0	.0	.5	4.0	1.0	2.0
2	12.5	9.5	11.0	---	---	---	3.5	.0	1.5	1.0	.0	.0
3	13.5	10.0	11.5	---	---	---	4.0	.0	2.0	.5	.0	.0
4	11.5	9.0	10.5	---	---	---	3.5	.0	2.0	.5	.0	.0
5	11.5	8.0	9.5	---	---	---	5.5	2.0	3.5	3.5	.0	2.0
6	14.0	7.0	10.5	---	---	---	5.0	1.0	3.0	1.5	.0	1.0
7	13.5	7.5	11.0	---	---	---	5.5	1.5	3.5	---	---	---
8	---	---	---	---	---	---	5.5	1.5	3.5	---	---	---
9	---	---	---	---	---	---	5.0	1.0	3.0	.5	.0	.0
10	---	---	---	7.5	3.0	5.0	5.5	2.0	3.5	.5	.0	.0
11	---	---	---	7.5	3.0	5.0	5.5	2.5	4.0	.5	.0	.0
12	---	---	---	7.5	2.5	5.0	5.0	1.5	3.5	.5	.0	.0
13	---	---	---	8.0	4.0	6.0	4.0	2.5	3.5	.5	.0	.5
14	---	---	---	8.0	5.0	6.5	4.0	1.5	2.5	.5	.0	.5
15	---	---	---	8.0	5.0	6.5	5.5	2.5	4.0	2.0	.0	.5
16	9.0	6.5	8.0	8.5	4.5	6.0	3.0	.0	2.0	3.5	.0	1.5
17	11.0	7.0	9.0	7.0	3.5	5.5	2.5	.0	1.0	4.5	1.0	2.5
18	11.0	6.5	8.5	5.5	4.0	5.0	1.5	.0	1.0	3.5	.5	2.0
19	11.0	5.0	8.0	5.0	1.5	3.5	4.5	1.0	2.5	4.0	.0	2.0
20	11.0	5.5	8.5	4.5	1.0	3.0	6.0	3.0	4.5	4.5	.0	2.0
21	10.5	5.0	8.0	5.5	2.0	4.0	4.0	2.5	3.5	2.5	.0	1.5
22	10.0	4.5	7.5	6.5	3.5	5.0	2.5	.5	1.5	1.0	.0	.5
23	10.0	4.0	7.0	7.5	4.5	6.0	.5	.0	.0	.5	.0	.0
24	7.5	5.5	6.5	7.5	3.5	5.5	---	---	---	4.0	.0	1.5
25	10.0	5.0	7.0	5.0	1.5	3.5	.5	.0	.5	4.0	.0	2.0
26	9.5	4.0	6.5	3.0	.0	1.5	.5	.0	.0	6.5	1.0	3.5
27	---	---	---	2.5	.0	1.0	1.5	.0	.5	5.5	1.5	3.0
28	---	---	---	3.0	.5	2.0	---	---	---	3.0	.0	1.5
29	---	---	---	3.0	1.0	2.0	.5	.0	.0	3.5	.5	2.0
30	---	---	---	3.0	1.0	2.0	4.5	.0	2.0	2.0	.0	.5
31	---	---	---	---	---	---	2.0	.0	1.0	3.0	.0	1.0
MONTH	15.0	4.0	9.0	8.5	.0	4.5	6.0	.0	2.0	6.5	.0	1.0

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	.0	1.5	7.0	2.0	5.0	---	---	---	14.0	5.5	9.5
2	3.0	.0	1.0	11.0	4.5	7.0	---	---	---	15.0	5.0	10.0
3	1.5	.0	.5	6.5	3.0	5.0	---	---	---	18.0	7.5	11.5
4	.5	.0	.0	7.0	1.0	4.0	---	---	---	10.5	7.5	8.5
5	---	---	---	6.0	1.5	3.5	---	---	---	14.0	4.5	8.5
6	---	---	---	8.5	.0	3.5	---	---	---	16.5	3.0	9.0
7	.5	.0	.0	9.5	1.5	5.0	---	---	---	14.0	4.0	9.0
8	.5	.0	.0	8.0	1.5	4.5	---	---	---	16.0	6.5	10.5
9	.5	.0	.0	8.5	1.0	5.0	12.5	.0	6.0	17.0	6.0	10.5
10	.0	.0	.0	7.5	2.5	5.0	14.0	.5	7.0	13.5	6.0	10.5
11	.0	.0	.0	8.5	4.0	6.0	13.5	4.5	8.5	14.5	6.0	11.0
12	.5	.0	.0	10.5	4.0	6.5	11.5	7.0	9.0	7.0	3.5	5.0
13	.5	.0	.0	11.5	1.5	6.5	17.0	5.0	10.5	12.5	3.5	7.5
14	5.0	.5	3.0	8.0	2.5	5.5	17.0	3.5	9.5	13.5	6.0	9.5
15	6.0	2.5	4.0	9.5	4.5	6.0	12.5	4.0	8.0	15.0	5.0	10.0
16	5.0	2.5	3.5	9.5	3.5	6.0	14.0	1.5	6.5	17.5	6.0	11.0
17	7.5	1.5	4.0	11.0	2.0	6.5	15.0	1.5	7.5	18.5	6.0	12.0
18	6.5	.5	3.5	11.0	3.5	7.0	13.0	2.5	7.5	17.0	6.5	11.0
19	7.0	.0	3.0	6.0	2.0	4.0	10.5	2.0	5.5	14.5	7.0	10.5
20	8.0	1.0	3.5	8.0	1.0	4.0	7.5	1.0	4.0	18.5	6.5	12.0
21	8.5	1.0	4.0	6.0	.0	3.0	14.0	.5	6.5	20.0	5.5	12.0
22	8.5	1.5	4.0	8.0	.0	3.5	16.0	2.0	8.0	17.0	6.5	11.5
23	8.0	2.5	4.5	12.0	.5	5.5	12.0	4.5	7.5	20.5	7.0	13.0
24	7.5	1.0	4.0	12.5	1.0	6.5	16.0	4.5	9.5	18.0	7.5	11.5
25	9.0	2.0	5.0	13.5	1.5	7.0	14.0	4.5	8.5	19.0	6.5	12.0
26	10.0	1.0	5.0	---	---	---	13.0	5.0	8.0	21.0	6.5	13.0
27	8.0	2.5	5.0	---	---	---	13.5	6.0	9.0	19.5	7.5	13.0
28	11.5	2.5	6.0	---	---	---	18.5	4.5	---	17.0	8.5	12.0
29	---	---	---	---	---	---	15.0	6.5	9.0	18.5	6.5	12.0
30	---	---	---	---	---	---	16.5	3.5	9.0	13.5	7.5	10.5
31	---	---	---	---	---	---	---	---	---	20.5	6.5	12.5
MONTH	11.5	.0	2.5	13.5	.0	5.0	18.5	.0	8.0	21.0	3.0	10.5

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	7.0	11.5	21.5	10.0	16.5				20.5	10.5	15.0
2	18.0	6.5	12.0	23.0	7.0	14.5				19.5	9.5	14.5
3	19.0	8.0	13.0	23.5	7.5	15.0				19.5	9.5	14.5
4	20.0	6.0	12.5	23.0	7.5	15.0				17.5	11.0	14.0
5	19.5	6.0	12.0	18.0	8.0	13.0				18.5	12.5	14.5
6	18.0	5.0	11.5	22.5	7.0	14.0				17.5	10.0	13.5
7	20.5	5.0	11.5	21.0	7.5	14.0				15.0	10.5	12.0
8	19.5	5.5	12.0	18.0	10.0	13.0				16.5	10.5	13.0
9	21.0	5.5	12.5	19.0	10.0	14.0				15.5	10.0	13.0
10	18.5	6.0	12.0	21.5	9.0	15.0				15.5	11.0	13.0
11	22.5	7.5	14.0	20.0	10.0	14.5				13.0	10.5	11.5
12	18.0	7.5	12.5	16.5	9.0	15.0				14.5	9.0	11.5
13	18.5	7.5	12.5	19.0	10.0	14.0				10.5	9.0	9.5
14	15.5	7.0	11.0	21.0	9.5	15.0				10.5	7.5	9.0
15	18.5	7.5	12.5	21.0	9.5	15.0				15.0	8.0	11.0
16	22.5	7.5	14.5	22.0	9.5	15.0				16.0	9.0	12.5
17	22.0	9.0	15.0	22.0	11.5	15.5				17.0	10.5	13.0
18	18.5	10.0	13.0	22.5	11.0	16.0				15.0	9.0	12.0
19	21.0	7.5	13.5	23.0	10.5	16.0				14.5	9.0	11.5
20	21.5	7.5	13.5	21.5	10.0	15.5				16.0	9.0	12.5
21	16.0	8.0	12.0	22.0	10.5	16.0				17.5	9.5	13.0
22	17.0	9.0	12.0	21.5	12.5	17.0				16.5	9.5	13.0
23	19.0	8.5	13.0	23.5	12.0	17.5				18.0	10.0	13.5
24	22.5	8.0	14.5	20.0	12.5	16.0				16.0	8.5	12.5
25	18.0	8.5	12.5	22.0	12.0	16.5				12.5	10.0	11.5
26	22.5	7.5	14.0	20.0	13.0	16.0				15.0	11.0	12.5
27	24.0	8.0	15.0	21.5	12.5	16.5				12.5	9.5	11.0
28	24.0	8.5	15.5	---	---	---				9.5	8.0	8.5
29	23.5	8.0	15.0	---	---	---				10.5	7.0	8.5
30	21.5	10.0	14.5	---	---	---				11.5	7.5	9.5
31	---	---	---	---	---	---				---	---	---
MONTH	24.0	5.0	13.0	23.5	7.0	15.0				20.5	7.0	12.0
YEAR	24.0	.0	7.5									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			3.5			9.9			13			12
2			3.8			12			11			12
3			5.0			12			11			12
4			6.2			10			11			12
5			7.5			9.8			12			12
6			6.3			9.1			12			12
7			6.1			12			12			12
8			6.7			14			12			12
9			6.4			14			12			12
10			6.0			13			12			12
11			6.5			12			12			12
12			7.2			18			12			12
13			7.8			20			12			11
14			7.6			19			11			11
15			7.9			18			11			10
16			10			17			11			9.5
17			7.5			15			11			9.7
18			7.5			16			12			9.5
19			7.2			16			12			9.5
20			6.8			16			12			9.6
21			7.1			17			13			9.2
22			7.0			19			12			9.0
23			7.6			18			12			9.0
24			7.7			17			12			9.5
25			7.0			17			12			9.0
26			6.4			15			12			10
27			6.1			14			12			9.9
28			5.9			13			12			11
29			6.7			13			12			9.2
30			9.5			13			12			11
31			9.7						12			11
MONTH			6.9			15			12			11

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			9.0			13			18			3.8
2			9.0			16			18			3.6
3			9.0			29			17			5.1
4			9.0			24			17			6.1
5			9.0			21			17			8.5
6			9.0			16			17			6.6
7			9.0			17			18			4.1
8			9.0			15			18			3.0
9			9.0			15			16			2.9
10			9.0			15			16			2.9
11			9.0			14			17			2.9
12			9.0			23			17			3.3
13			9.0			28			17			17
14			10			34			13			20
15			11			42			16			10
16			11			36			17			5.9
17			14			27			12			6.5
18			11			25			6.6			4.4
19			14			24			6.8			6.4
20			21			23			5.3			11
21			29			20			5.1			7.2
22			37			20			5.9			6.0
23			33			18			5.8			5.4
24			21			18			5.6			5.6
25			17			17			4.9			4.4
26			15			15			4.9			4.0
27			15			15			6.1			6.0
28			14			16			5.3			7.2
29						18			5.0			5.5
30						17			3.5			5.3
31						16						5.9
MONTH			14			21			12			6.3

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			5.2			3.3			6.7			12
2			4.8			3.2			6.9			12
3			4.0			3.1			8.4			11
4			3.1			2.9			7.6			11
5			3.2			3.2			12			12
6			3.3			3.3			11			14
7			3.3			3.4			12			12
8			3.4			3.7			12			12
9			3.6			4.8			13			16
10			4.0			5.0			13			17
11			5.6			4.3			19			21
12			3.8			4.6			23			20
13			3.4			4.5			31			21
14			4.9			6.4			20			22
15			4.9			6.8			17			21
16			4.7			6.6			15			19
17			4.8			6.5			15			17
18			5.0			7.0			19			17
19			4.8			7.0			15			17
20			5.0			6.5			13			16
21			5.5			6.5			13			15
22			5.6			5.9			13			15
23			5.4			5.4			15			14
24			5.1			5.4			13			13
25			4.2			6.1			13			14
26			3.7			6.1			13			15
27			3.9			7.4			13			15
28			3.8			14			12			16
29			3.5			11			14			16
30			3.3			9.7			15			17
31						7.1			14			
MONTH			4.3			5.8			14			16
YEAR	---	---	11									

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1570	1510	1540	---	---	---	1330	1270	1290	1250	1210	1230
2	1560	1510	1540	---	---	---	1290	1280	1290	1280	1210	1240
3	1580	1500	1540	---	---	---	1290	1270	1280	1270	1220	1240
4	1550	1470	1510	---	---	---	1290	1270	1290	1320	1220	1260
5	1540	1440	1500	---	---	---	1290	1280	1280	1250	1230	1240
6	1550	1500	1530	---	---	---	1280	1270	1280	1280	1200	1240
7	1550	1500	1530	---	---	---	1290	1270	1280	---	---	---
8	---	---	---	---	---	---	1280	1270	1270	---	---	---
9	---	---	---	1410	1380	1380	1280	1270	1270	1310	1250	1280
10	---	---	---	1400	1380	1390	1270	1270	1270	1270	1200	1240
11	---	---	---	1410	1380	1400	1270	1270	1270	1230	1200	1210
12	---	---	---	1390	1340	1370	1270	1260	1270	1230	1190	1210
13	---	---	---	1350	1320	1340	1270	1260	1260	1250	1200	1230
14	---	---	---	1340	1330	1330	1270	1260	1260	1260	1180	1230
15	---	---	---	1340	1330	1330	1270	1260	1260	1250	1130	1230
16	1540	1460	1500	1340	1330	1330	1260	1250	1250	1240	1230	1240
17	1550	1510	1530	1350	1330	1340	1260	1240	1250	1240	1230	1230
18	1550	1510	1530	1340	1310	1330	1330	1250	1280	1240	1230	1230
19	1540	1500	1530	1350	1330	1340	1260	1240	1250	1240	1230	1230
20	1570	1510	1540	1340	1310	1330	1260	1250	1260	1230	1230	1230
21	1570	1520	1550	1330	1290	1320	1250	1230	1240	1240	1200	1230
22	1590	1530	1560	1310	1300	1300	1250	1230	1240	1230	1180	1200
23	1590	1520	1570	1300	1290	1300	1310	1250	1280	1310	1190	1250
24	1590	1520	1550	1300	1290	1290	---	---	---	1220	1190	1220
25	1590	1560	1570	1300	1260	1280	1260	1230	1240	1250	1210	1220
26	1580	1530	1560	1310	1270	1290	1330	1240	1280	1230	1170	1200
27	---	---	---	1310	1270	1290	1310	1220	1260	1220	1180	1210
28	---	---	---	1290	1280	1290	---	---	---	1270	1190	1230
29	---	---	---	1290	1270	1280	1280	1200	1230	1220	1200	1220
30	---	---	---	1280	1280	1280	1250	1190	1210	1280	1190	1240
31	---	---	---	---	---	---	1240	1210	1220	1260	1180	1210
MONTH	1590	1440	1540	1410	1260	1320	1330	1190	1260	1320	1130	1230

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1220	1190	1200	1200	1180	1190	---	---	---	1530	1460	1500
2	1240	1200	1220	1200	1150	1190	---	---	---	1550	1470	1510
3	1270	1180	1240	1120	1020	1080	---	---	---	1490	1390	1440
4	1340	1240	1300	1150	1080	1110	---	---	---	1470	1320	1390
5	---	---	---	1170	1110	1140	---	---	---	1350	1210	1270
6	---	---	---	1210	1160	1190	---	---	---	1450	1290	1350
7	1340	1240	1290	1180	1160	1180	---	---	---	1570	1460	1510
8	1270	1190	1230	1190	1170	1180	---	---	---	1580	1550	1570
9	1280	1220	1250	1200	1170	1180	1190	1160	1180	1570	1550	1560
10	1210	1160	1180	1180	1170	1170	1180	1170	1170	1570	1550	1550
11	1230	1160	1200	1190	1170	1180	1190	1150	1170	1560	1510	1540
12	1280	1150	1210	1180	1100	1130	1180	1140	1160	1560	1350	1460
13	1260	1140	1200	1160	1100	1130	1170	1130	1150	1360	1270	1310
14	1210	1180	1200	1100	1060	1070	1220	1170	1200	1420	1260	1320
15	1240	1130	1180	1070	1010	1030	1210	1120	1170	1550	1310	1430
16	1220	1130	1180	1080	1000	1040	1160	1130	1150	1570	1530	1550
17	1200	1050	1140	1130	1080	1100	1320	1170	1210	1580	1500	1540
18	1210	1080	1150	1150	1120	1140	1340	1300	1320	1600	1560	1580
19	1220	962	1120	1160	1140	1150	1430	1300	1340	1630	1500	1540
20	1190	819	1040	1170	1150	1160	1440	1350	1400	1550	1440	1490
21	1150	801	999	1190	1160	1180	1480	1440	1450	1560	1520	1540
22	1120	685	937	1200	1170	1180	1500	1470	1480	1570	1520	1540
23	1120	806	973	1200	1180	1190	1500	1460	1480	1600	1520	1560
24	1150	894	1090	1200	1150	1190	1530	1500	1510	1560	1520	1540
25	1190	1130	1170	1200	1180	1190	1550	1530	1540	1580	1540	1560
26	1190	1140	1180	---	---	---	1550	1420	1520	1580	1530	1560
27	1180	1150	1170	---	---	---	1440	1390	1420	1560	1360	1500
28	1210	1180	1190	---	---	---	1420	1390	1410	1530	1360	1460
29	---	---	---	---	---	---	1480	1380	1410	1540	1490	1520
30	---	---	---	---	---	---	1530	1460	1490	1530	1500	1520
31	---	---	---	---	---	---	---	---	---	1530	1480	1500
MONTH	1340	685	1160	1210	1000	1150	1550	1120	1330	1630	1210	1490

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1540	1500	1520	1600	1580	1580				1340	1280	1320
2	1550	1500	1530	1600	1570	1590				1340	1310	1330
3	1570	1530	1540	1610	1580	1590				1340	1320	1330
4	1580	1550	1570	1600	1580	1590				1340	1320	1330
5	1580	1550	1560	1610	1590	1600				1340	1290	1330
6	1570	1540	1560	1610	1590	1600				1350	1230	1290
7	1570	1550	1560	1630	1600	1610				1320	1280	1310
8	1570	1550	1570	1640	1550	1620				1330	1300	1320
9	1600	1550	1560	1660	1610	1640				1320	1220	1290
10	1570	1540	1560	1680	1660	1670				1300	1210	1270
11	1540	1500	1520	1690	1660	1670				1310	1210	1250
12	1550	1520	1530	1670	1630	1650				1270	1240	1250
13	1560	1530	1550	1680	1630	1660				1260	1230	1250
14	1550	1480	1510	1640	1610	1620				1320	1210	1250
15	1590	1530	1570	1630	1590	1610				1270	1230	1250
16	1590	1550	1570	1620	1590	1610				1270	1250	1260
17	1590	1540	1570	1650	1590	1610				1280	1250	1270
18	1590	1540	1570	1610	1570	1590				1300	1270	1280
19	1590	1560	1580	1600	1560	1580				1310	1260	1280
20	1580	1570	1570	1620	1570	1600				1290	1240	1270
21	1580	1540	1570	1600	1560	1580				1280	1250	1270
22	1590	1570	1580	1610	1560	1580				1290	1250	1270
23	1610	1570	1590	1610	1560	1580				1280	1230	1260
24	1610	1570	1590	1600	1550	1580				1290	1250	1270
25	1610	1570	1590	1580	1530	1560				1280	1260	1270
26	1610	1570	1590	1570	1530	1560				1270	1250	1260
27	1600	1570	1590	1590	1060	1520				1260	1220	1240
28	1600	1570	1590	---	---	---				1270	1210	1240
29	1600	1570	1590	---	---	---				1250	1230	1240
30	1600	1570	1580	---	---	---				1240	1200	1220
31	---	---	---	---	---	---				---	---	---
MONTH	1610	1480	1560	1690	1060	1600				1350	1200	1280
YEAR	1690	685	1360									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.2	6.7	8.7	---	---	---	11.4	10.1	10.6	10.3	9.3	9.9
2	10.6	6.7	8.1	---	---	---	11.8	9.8	10.6	10.5	10.0	10.2
3	10.5	6.6	8.1	---	---	---	11.9	9.8	10.5	10.7	10.2	10.4
4	9.2	6.8	7.8	---	---	---	12.0	9.8	10.6	10.5	10.1	10.4
5	9.9	7.2	8.4	---	---	---	11.6	9.3	10.2	10.2	9.3	9.9
6	10.4	6.5	8.3	---	---	---	11.7	8.2	10.1	10.8	9.7	10.4
7	10.4	6.6	8.3	---	---	---	11.7	8.2	10.0	---	---	---
8	---	---	---	---	---	---	11.9	9.2	10.2	---	---	---
9	---	---	---	11.7	8.8	9.9	11.8	9.3	10.2	10.8	10.4	10.5
10	---	---	---	11.9	9.0	10.1	11.6	9.0	10.0	10.7	10.4	10.5
11	---	---	---	12.0	8.8	10.1	11.5	8.9	9.8	10.5	10.2	10.3
12	---	---	---	11.5	8.9	9.9	11.8	9.1	9.9	10.5	9.9	10.2
13	---	---	---	11.3	8.6	9.7	11.0	9.3	9.8	10.5	9.9	10.3
14	---	---	---	11.1	8.2	9.4	11.5	9.4	9.9	10.5	10.0	10.3
15	---	---	---	11.1	8.5	9.5	11.5	8.9	9.7	10.6	9.9	10.3
16	9.8	7.0	8.2	11.4	8.4	9.5	12.2	9.3	10.1	10.5	9.6	10.1
17	10.0	7.0	8.1	11.4	8.8	9.7	12.3	10.1	10.8	10.3	9.3	9.8
18	10.2	7.0	8.2	11.4	8.3	9.8	10.9	10.4	10.6	10.2	9.5	9.8
19	10.2	6.9	8.3	12.0	8.0	10.2	11.1	9.4	10.2	10.5	9.3	9.9
20	10.1	6.8	8.2	11.7	8.2	10.1	10.9	9.0	9.7	10.5	9.2	9.9
21	10.1	6.9	8.2	11.7	8.2	10.0	10.5	9.4	9.7	10.6	9.7	9.9
22	10.4	7.1	8.4	11.4	8.9	9.8	11.2	9.8	10.3	10.7	10.1	10.4
23	10.2	7.1	8.5	11.1	8.7	9.6	11.2	10.3	10.8	10.6	10.3	10.5
24	9.6	7.1	8.1	11.6	8.5	9.6	---	---	---	10.6	9.6	10.2
25	10.3	7.2	8.4	10.7	8.2	9.6	10.8	10.2	10.5	10.8	9.6	10.2
26	10.6	7.3	8.7	11.8	8.2	10.3	10.7	10.4	10.6	10.4	8.8	9.7
27	---	---	---	11.5	9.8	10.4	10.8	10.1	10.3	10.4	9.2	9.7
28	---	---	---	11.8	8.2	10.3	---	---	---	10.5	9.6	10.0
29	---	---	---	11.4	8.3	10.1	10.8	10.3	10.5	10.5	9.8	10.1
30	---	---	---	11.7	8.1	10.2	10.4	9.5	9.9	10.7	10.0	10.4
31	---	---	---	---	---	---	10.8	9.9	10.2	10.7	9.7	10.3
MONTH	11.2	6.5	8.3	12.0	8.0	9.9	12.3	8.2	10.2	10.8	8.8	10.2

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.8	9.9	10.3				---	---	---	---	---	---
2	10.7	9.8	10.3				---	---	---	---	---	---
3	10.5	10.1	10.3				---	---	---	---	---	---
4	10.4	10.0	10.2				---	---	---	---	---	---
5	---	---	---				---	---	---	---	---	---
6	---	---	---				---	---	---	10.1	6.7	8.6
7	10.4	9.9	10.1				---	---	---	10.4	6.5	8.6
8	10.7	10.0	10.2				---	---	---	11.5	6.3	8.6
9	10.4	10.1	10.2				9.8	7.6	8.6	11.6	6.0	8.6
10	10.4	10.2	10.3				9.9	7.3	8.6	11.3	6.6	9.4
11	10.3	10.1	10.2				9.2	7.2	8.2	---	---	---
12	10.4	10.2	10.3				8.8	7.6	8.1	9.8	6.6	8.7
13	---	---	---				9.2	6.9	8.1	8.3	6.6	7.4
14	---	---	---				9.2	6.6	8.0	7.8	6.5	7.0
15	---	---	---				8.7	7.0	7.8	8.2	5.8	7.1
16	---	---	---				8.9	6.9	7.8	8.0	5.7	6.9
17	---	---	---				8.9	6.1	7.7	8.7	5.8	7.3
18	---	---	---				---	---	---	9.8	5.7	7.6
19	---	---	---				---	---	---	9.8	6.0	7.5
20	---	---	---				---	---	---	8.8	5.7	7.3
21	---	---	---				---	---	---	10.0	5.5	7.7
22	---	---	---				---	---	---	10.1	5.4	7.7
23	---	---	---				---	---	---	11.4	5.1	7.9
24	---	---	---				---	---	---	10.4	5.4	7.5
25	---	---	---				---	---	---	10.5	5.2	7.5
26	---	---	---				---	---	---	10.4	5.1	7.4
27	---	---	---				---	---	---	9.7	5.3	7.2
28	---	---	---				---	---	---	8.4	5.6	6.9
29	---	---	---				---	---	---	8.8	5.3	7.0
30	---	---	---				---	---	---	8.8	5.5	6.9
31	---	---	---				---	---	---	---	---	---
MONTH	10.8	9.8	10.2				9.9	6.1	8.1	11.6	5.1	7.7

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---				8.8	6.5	7.6
2	---	---	---	11.4	5.5	8.5				9.0	6.5	7.7
3	---	---	---	10.7	5.0	7.9				9.0	6.4	7.7
4	---	---	---	10.0	4.9	7.5				8.7	6.5	7.5
5	---	---	---	9.4	5.3	7.1				8.7	7.2	7.3
6	---	---	---	---	---	---				8.9	6.8	7.6
7	---	---	---	---	---	---				8.8	7.2	7.2
8	---	---	---	---	---	---				8.8	7.0	7.7
9	10.7	6.2	8.1	---	---	---				9.1	7.0	7.8
10	10.4	6.3	8.2	---	---	---				8.8	7.0	7.7
11	10.0	6.2	8.1	---	---	---				7.9	7.1	7.5
12	9.9	6.4	8.1	9.4	5.6	7.4				8.2	7.3	7.7
13	10.5	6.4	8.3	9.6	6.1	7.4				8.4	7.7	8.0
14	9.7	6.8	7.8	9.3	5.6	7.3				8.6	7.8	8.1
15	10.1	6.3	8.2	9.0	5.4	7.3				8.6	7.0	7.9
16	10.8	6.0	8.3	9.2	5.4	7.3				8.8	7.0	7.8
17	10.0	6.0	7.8	9.6	5.4	7.3				8.4	6.9	7.7
18	9.0	6.1	7.5	9.5	5.2	7.0				8.6	7.1	7.7
19	9.5	6.0	7.7	9.6	5.1	7.1				8.6	7.0	7.7
20	10.1	5.5	7.7	---	---	---				8.4	6.7	7.5
21	9.3	5.5	7.1	---	---	---				8.9	7.0	7.8
22	9.6	5.4	6.9	---	---	---				8.9	7.0	7.9
23	---	---	---	---	---	---				8.8	6.8	7.8
24	---	---	---	---	---	---				9.0	7.0	8.0
25	11.6	6.6	8.6	---	---	---				8.5	7.4	7.8
26	13.5	5.7	9.3	---	---	---				8.3	6.9	7.6
27	12.0	5.6	8.4	---	---	---				8.1	7.1	7.5
28	10.9	5.1	7.9	---	---	---				8.6	7.6	7.9
29	---	---	---	---	---	---				8.4	7.4	7.9
30	---	---	---	---	---	---				8.2	7.2	7.6
31	---	---	---	---	---	---				---	---	---
MONTH	13.5	5.1	8.0	11.4	4.9	7.4				9.1	6.4	7.7
YEAR	13.5	4.9	8.9									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	7.8	8.0	---	---	---	8.4	8.0	8.2	8.3	8.2	8.3
2	8.0	7.8	7.9	---	---	---	8.3	8.2	8.2	8.3	8.2	8.3
3	8.1	7.8	7.9	---	---	---	8.3	8.2	8.2	8.3	8.2	8.3
4	7.9	7.8	7.8	---	---	---	8.3	8.2	8.2	8.3	8.1	8.2
5	8.0	7.7	7.8	---	---	---	8.3	8.2	8.2	8.3	8.2	8.2
6	8.1	7.7	7.9	---	---	---	8.3	8.1	8.2	8.3	8.1	8.2
7	8.1	7.7	7.9	---	---	---	8.3	8.2	8.2	---	---	---
8	---	---	---	---	---	---	8.4	8.2	8.3	---	---	---
9	---	---	---	8.1	7.9	8.0	8.3	8.2	8.3	8.0	7.9	7.9
10	---	---	---	8.2	7.9	8.0	8.3	8.2	8.2	8.2	8.0	8.1
11	---	---	---	8.3	8.0	8.1	8.3	8.2	8.2	8.2	8.1	8.1
12	---	---	---	8.3	8.1	8.1	8.3	8.2	8.2	8.2	8.1	8.2
13	---	---	---	8.3	8.1	8.2	8.3	8.2	8.2	8.2	8.1	8.2
14	---	---	---	8.3	8.1	8.2	8.3	8.2	8.3	8.2	8.1	8.1
15	---	---	---	8.3	8.1	8.2	8.3	8.2	8.2	8.2	8.1	8.1
16	7.9	7.8	7.9	8.3	8.1	8.2	8.3	8.1	8.3	8.2	8.1	8.2
17	8.0	7.7	7.8	8.4	8.1	8.2	8.3	8.2	8.3	8.2	8.1	8.1
18	8.1	7.7	7.8	8.3	8.1	8.2	8.3	8.2	8.2	8.2	8.1	8.1
19	8.1	7.7	7.8	8.3	8.2	8.2	8.3	8.2	8.2	8.2	8.1	8.2
20	8.0	7.7	7.8	8.2	8.1	8.2	8.3	8.2	8.2	8.2	8.1	8.2
21	8.0	7.7	7.8	8.3	8.1	8.2	8.3	8.2	8.2	8.4	8.0	8.2
22	8.1	7.7	7.8	8.3	8.2	8.2	8.3	8.2	8.3	8.4	8.3	8.3
23	8.1	7.7	7.8	8.3	8.1	8.2	8.4	8.2	8.3	8.3	8.0	8.2
24	7.9	7.7	7.8	8.3	8.1	8.2	---	---	---	8.3	8.2	8.3
25	8.0	7.7	7.8	8.3	8.1	8.2	8.2	8.0	8.1	8.3	8.2	8.3
26	8.0	7.7	7.8	8.3	8.2	8.2	8.4	8.1	8.2	8.3	8.2	8.3
27	---	---	---	8.3	8.2	8.2	8.3	8.1	8.2	8.3	8.2	8.3
28	---	---	---	8.3	8.2	8.3	---	---	---	8.3	8.2	8.3
29	---	---	---	8.3	8.2	8.2	8.2	8.0	8.1	8.4	8.3	8.3
30	---	---	---	8.3	8.2	8.3	8.3	8.0	8.2	8.4	8.2	8.3
31	---	---	---	---	---	---	8.3	8.3	8.3	8.4	8.3	8.3
MONTH	8.2	7.7	7.8	8.4	7.9	8.2	8.4	8.0	8.2	8.4	7.9	8.2

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.3	8.3	8.3	8.2	8.3	---	---	---	8.2	8.0	8.1
2	8.4	8.3	8.3	8.4	8.2	8.3	---	---	---	8.3	8.0	8.1
3	8.4	8.2	8.3	8.3	8.3	8.3	---	---	---	8.3	8.0	8.1
4	8.3	8.0	8.1	8.3	8.2	8.3	---	---	---	8.2	8.0	8.1
5	---	---	---	8.4	8.3	8.3	---	---	---	---	---	---
6	---	---	---	8.3	8.2	8.3	---	---	---	---	---	---
7	8.2	7.9	8.1	8.3	8.2	8.3	---	---	---	---	---	---
8	8.3	8.1	8.2	8.3	8.2	8.3	---	---	---	---	---	---
9	8.3	8.0	8.2	8.4	8.2	8.3	8.2	8.0	8.1	---	---	---
10	8.7	8.3	8.4	8.3	8.1	8.2	8.3	8.1	8.2	---	---	---
11	8.4	8.2	8.3	8.3	8.2	8.2	8.3	8.2	8.2	---	---	---
12	8.3	8.1	8.2	8.3	8.2	8.3	8.3	8.2	8.2	---	---	---
13	8.3	8.1	8.2	8.4	8.2	8.3	8.4	8.2	8.3	---	---	---
14	8.3	8.2	8.3	8.3	8.2	8.2	8.4	8.2	8.3	---	---	---
15	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.2	8.2	---	---	---
16	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.2	8.3	---	---	---
17	8.3	8.2	8.3	8.3	8.2	8.3	8.3	8.1	8.2	---	---	---
18	8.3	8.2	8.2	8.3	8.2	8.3	8.2	8.1	8.1	---	---	---
19	8.2	8.1	8.2	8.3	8.2	8.3	8.2	8.0	8.1	---	---	---
20	8.3	8.2	8.2	8.3	8.2	8.3	8.1	8.0	8.1	---	---	---
21	8.3	8.2	8.2	8.3	8.2	8.3	8.1	8.0	8.0	---	---	---
22	8.3	8.1	8.2	8.3	8.3	8.3	8.1	8.0	8.0	---	---	---
23	8.3	8.1	8.2	8.3	8.2	8.3	8.1	7.9	7.9	---	---	---
24	8.3	8.2	8.2	8.6	8.2	8.4	8.1	8.0	8.0	---	---	---
25	8.3	8.3	8.3	8.5	8.4	8.5	8.1	7.9	8.0	---	---	---
26	8.3	8.2	8.3	---	---	---	8.1	7.9	8.0	---	---	---
27	8.3	8.2	8.3	---	---	---	8.3	8.0	8.1	---	---	---
28	8.3	8.3	8.3	---	---	---	8.3	8.0	---	---	---	---
29	---	---	---	---	---	---	8.3	8.0	8.1	---	---	---
30	---	---	---	---	---	---	8.3	8.0	8.1	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.7	7.9	8.3	8.6	8.1	8.3	8.4	7.9	8.1	8.3	8.0	8.1

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.5	8.2	8.3	---	---	---	8.4	8.0	8.2
2	---	---	---	8.5	8.1	8.3	---	---	---	8.4	8.0	8.2
3	---	---	---	8.5	8.1	8.3	---	---	---	8.4	8.0	8.2
4	---	---	---	8.5	8.1	8.3	---	---	---	8.4	8.1	8.2
5	---	---	---	8.5	8.1	8.3	---	---	---	8.4	8.1	8.2
6	---	---	---	8.5	8.0	8.2	---	---	---	8.4	8.0	8.2
7	---	---	---	8.4	8.0	8.2	---	---	---	8.4	8.0	8.1
8	---	---	---	8.5	8.1	8.2	---	---	---	8.3	8.0	8.1
9	8.4	8.1	8.3	8.3	8.0	8.2	---	---	---	8.2	7.9	8.1
10	8.4	7.9	8.2	8.4	8.0	8.2	---	---	---	8.2	7.9	8.0
11	8.5	8.0	8.2	8.3	8.0	8.2	---	---	---	8.0	7.9	7.9
12	8.4	8.0	8.2	8.2	8.0	8.2	---	---	---	8.1	7.8	8.0
13	8.4	8.0	8.2	8.3	8.0	8.2	---	---	---	8.0	7.9	7.9
14	8.3	8.0	8.1	8.4	8.0	8.2	---	---	---	8.1	7.9	8.0
15	8.4	8.0	8.2	8.5	8.1	8.3	---	---	---	8.4	7.9	8.0
16	8.5	8.0	8.2	8.5	8.1	8.3	---	---	---	8.3	8.0	8.2
17	8.4	8.1	8.2	8.5	8.1	8.3	---	---	---	8.3	8.1	8.2
18	8.4	8.1	8.2	8.6	8.1	8.3	---	---	---	8.3	8.1	8.2
19	8.5	8.0	8.2	8.6	8.1	8.3	---	---	---	8.3	8.1	8.2
20	8.5	8.0	8.2	8.6	8.1	8.3	---	---	---	8.4	8.1	8.2
21	8.4	8.1	8.2	8.6	8.1	8.3	---	---	---	8.5	8.1	8.3
22	8.4	8.0	8.2	8.6	8.2	8.4	---	---	---	8.4	8.1	8.3
23	8.5	8.0	8.2	8.6	8.2	8.4	---	---	---	8.5	8.1	8.3
24	8.6	8.0	8.3	8.6	8.2	8.3	---	---	---	8.4	8.1	8.3
25	8.4	8.1	8.2	8.6	8.1	8.4	---	---	---	8.3	8.2	8.2
26	8.5	8.0	8.2	8.6	8.2	8.4	---	---	---	8.4	8.2	8.3
27	8.5	8.0	8.3	8.7	8.2	8.4	---	---	---	8.3	8.2	8.3
28	8.5	8.1	8.3	---	---	---	---	---	---	8.3	8.2	8.2
29	8.5	8.1	8.3	---	---	---	---	---	---	8.3	8.1	8.2
30	8.5	8.1	8.3	---	---	---	---	---	---	8.3	8.1	8.2
31	---	---	---	---	---	---	8.4	8.2	8.3	---	---	---
MONTH	8.6	7.9	8.2	8.7	8.0	8.3	8.4	8.2	8.3	8.5	7.8	8.2
YEAR	8.7	7.7	8.2									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	6.0	14.0	8.5	2.0	5.5	.0	.0	.0	.0	.0	.0
2	15.5	9.5	12.0	9.5	3.0	6.0	1.5	.0	.5	.0	.0	.0
3	16.0	10.5	12.5	9.5	3.5	6.5	4.0	1.5	3.0	.0	.0	.0
4	12.0	9.5	11.0	9.5	3.5	6.5	3.5	.0	1.5	.0	.0	.0
5	13.5	8.5	11.0	9.0	3.5	6.5	5.5	1.5	3.0	.0	.0	.0
6	17.0	6.5	11.5	9.0	4.0	6.5	5.5	1.0	3.0	.0	.0	.0
7	16.0	7.5	11.5	9.5	6.0	7.5	5.5	1.0	3.0	.0	.0	.0
8	11.5	9.5	10.5	8.5	4.0	6.0	5.0	1.0	3.0	.0	.0	.0
9	14.0	8.0	10.5	8.5	3.0	5.5	4.5	.5	2.5	.0	.0	.0
10	13.5	7.5	10.5	7.5	2.5	5.0	6.0	2.0	3.5	.0	.0	.0
11	10.5	8.5	9.5	8.0	2.5	5.0	6.0	2.5	4.0	.0	.0	.0
12	12.5	7.0	9.5	7.5	2.5	5.0	5.0	1.5	3.5	.0	.0	.0
13	13.0	7.5	10.0	8.5	4.0	6.0	4.0	2.5	3.0	.0	.0	.0
14	13.0	8.0	10.5	8.5	5.5	6.5	4.0	1.0	2.5	.0	.0	.0
15	9.5	7.0	8.5	8.0	5.0	6.5	5.5	2.5	3.5	.0	.0	.0
16	10.5	7.0	8.5	9.0	4.0	6.5	3.0	.0	1.5	.0	.0	.0
17	12.0	7.0	9.5	7.5	3.5	5.5	2.5	.0	1.0	.0	.0	.0
18	13.0	6.0	9.5	5.5	3.5	4.5	.5	.0	.0	.0	.0	.0
19	13.0	4.5	8.5	5.0	.5	3.0	4.0	.5	2.5	.0	.0	.0
20	13.0	4.5	8.5	4.0	.0	2.5	6.5	2.5	4.5	1.0	.0	.5
21	12.5	4.5	8.5	5.0	1.5	3.5	4.5	2.5	3.5	2.0	.0	1.0
22	11.5	4.0	7.5	6.5	3.0	5.0	2.5	.0	1.5	.5	.0	.0
23	11.5	3.5	7.5	7.5	4.5	6.0	.0	.0	.0	.0	.0	.0
24	8.0	6.0	7.0	7.5	3.5	5.5	.0	.0	.0	.0	.0	.0
25	11.5	5.0	8.0	5.0	.5	3.0	.0	.0	.0	3.0	.0	1.0
26	11.5	3.5	7.5	2.0	.0	.5	.0	.0	.0	5.5	.5	3.0
27	11.5	5.5	8.5	1.0	.0	.0	.0	.0	.0	5.5	.5	2.5
28	10.5	5.0	7.5	2.5	.0	1.0	.0	.0	.0	3.5	.0	1.5
29	9.0	6.5	8.0	2.5	.5	1.5	.0	.0	.0	3.0	.0	1.5
30	8.0	3.0	5.5	2.5	.0	1.0	.0	.0	.0	1.5	.0	.5
31	8.0	1.5	4.5	---	---	---	.0	.0	.0	2.5	.0	.5
MONTH	18.5	1.5	9.5	9.5	.0	4.5	6.5	.0	1.5	5.5	.0	.5

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	.0	1.5	6.5	3.0	5.0	---	---	---	16.5	7.0	11.5
2	3.5	.0	1.0	10.0	5.0	7.0	---	---	---	17.5	7.0	12.5
3	.5	.0	.0	6.5	4.0	5.5	---	---	---	18.5	9.5	13.5
4	.0	.0	.0	6.5	1.0	4.0	---	---	---	12.5	9.0	11.0
5	.0	.0	.0	6.5	2.0	4.0	---	---	---	16.0	4.5	9.5
6	.0	.0	.0	8.0	.0	3.5	---	---	---	17.5	2.0	9.5
7	.0	.0	.0	8.0	2.0	5.0	---	---	---	14.5	4.0	9.5
8	.0	.0	.0	7.0	2.5	4.5	---	---	---	16.5	7.5	11.5
9	.0	.0	.0	9.0	2.0	5.5	---	---	---	15.0	6.5	10.5
10	.0	.0	.0	7.0	.5	5.0	---	---	---	13.0	6.0	9.5
11	.0	.0	.0	---	---	---	---	---	---	13.5	6.5	9.5
12	.0	.0	.0	---	---	---	---	---	---	9.5	6.0	7.0
13	.0	.0	.0	---	---	---	---	---	---	11.5	5.5	8.5
14	.0	.0	.0	---	---	---	---	---	---	13.5	7.5	10.0
15	3.5	.0	.5	---	---	---	---	---	---	14.0	7.0	10.5
16	5.0	2.0	3.0	---	---	---	---	---	---	14.0	7.5	11.0
17	7.0	1.5	3.5	---	---	---	---	---	---	19.5	8.0	12.5
18	7.0	.5	3.5	---	---	---	---	---	---	18.0	7.5	12.5
19	7.0	.0	3.5	---	---	---	---	---	---	15.5	8.0	11.5
20	8.0	1.0	3.5	---	---	---	---	---	---	17.0	7.5	12.0
21	9.0	1.0	4.5	---	---	---	---	---	---	20.5	6.0	13.0
22	9.0	1.5	4.5	---	---	---	15.0	1.5	8.5	19.0	6.5	13.0
23	8.0	2.5	5.0	---	---	---	12.5	5.0	8.5	22.0	8.5	14.5
24	7.0	1.0	4.5	---	---	---	17.5	4.5	11.0	19.0	8.0	13.5
25	8.5	2.0	5.0	---	---	---	13.5	6.0	10.0	21.0	7.0	13.5
26	8.5	1.5	5.0	---	---	---	12.5	6.0	9.0	23.5	7.5	15.0
27	8.0	3.0	5.5	---	---	---	15.5	7.0	10.0	20.5	8.0	14.0
28	10.0	3.0	6.5	---	---	---	19.5	4.5	12.0	19.0	8.5	13.0
29	---	---	---	---	---	---	15.0	7.0	10.5	19.0	7.5	13.0
30	---	---	---	---	---	---	17.0	4.5	11.0	15.0	9.0	11.5
31	---	---	---	---	---	---	---	---	---	21.0	6.5	13.5
MONTH	10.0	.0	2.0	10.0	.0	5.0	19.5	1.5	10.0	23.5	2.0	11.5

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	8.5	13.0	20.5	13.0	16.5	22.5	13.0	18.0	20.0	12.0	16.0
2	20.0	7.5	13.5	21.5	10.5	16.0	20.5	15.5	18.0	19.0	11.0	15.5
3	20.5	9.5	14.5	22.5	10.5	16.5	22.0	13.5	17.5	19.5	11.0	15.5
4	20.0	8.5	14.0	22.0	11.0	16.0	23.0	13.0	18.0	18.5	12.0	15.5
5	19.0	7.5	13.0	16.5	13.0	14.5	22.5	12.5	18.0	19.5	13.5	16.0
6	20.5	6.5	13.0	22.0	9.0	15.0	23.5	13.0	18.5	17.0	11.0	14.5
7	20.5	7.0	13.0	20.0	10.5	15.5	22.0	13.5	18.0	15.0	11.5	13.5
8	20.5	7.5	13.5	20.0	12.5	15.5	18.5	14.0	17.0	16.5	11.5	14.0
9	22.0	7.5	14.0	20.0	11.5	15.5	21.5	14.0	18.0	17.0	11.5	14.0
10	19.0	8.0	14.0	22.0	10.5	16.0	20.5	13.5	17.0	15.5	12.5	14.0
11	21.5	9.0	15.0	20.0	12.0	16.0	19.5	14.0	16.5	14.5	12.0	13.0
12	17.5	9.5	14.0	21.5	11.0	16.0	18.5	14.0	16.0	13.5	10.5	12.0
13	18.5	9.5	13.5	19.5	12.5	16.0	16.0	12.5	14.5	12.5	10.0	11.0
14	18.5	8.5	13.0	20.5	11.0	15.5	21.5	13.5	17.0	10.5	9.0	9.5
15	21.0	9.0	14.5	21.5	11.5	16.5	21.0	13.5	17.5	13.5	9.0	11.0
16	22.0	9.5	15.5	21.5	11.0	16.5	19.0	14.0	17.0	14.5	10.5	12.5
17	22.5	11.5	17.0	20.0	14.0	17.0	19.5	13.0	16.5	15.0	12.0	13.5
18	19.0	12.0	15.0	22.0	13.0	17.5	21.5	13.5	17.5	14.5	11.0	13.0
19	21.5	9.5	15.0	23.0	12.5	18.0	21.0	14.0	17.5	13.0	10.5	12.0
20	23.0	10.0	16.0	21.5	12.5	17.5	19.0	13.5	16.5	15.0	10.5	12.5
21	17.5	11.0	14.5	22.0	13.0	17.5	20.5	14.0	17.5	15.5	11.0	13.5
22	17.5	12.0	14.5	22.0	15.0	18.5	19.0	15.0	16.5	16.0	11.0	13.0
23	19.0	10.5	15.0	23.5	14.5	19.0	19.0	12.5	15.5	16.0	11.0	13.5
24	20.5	10.5	15.5	22.0	15.5	18.5	21.0	14.0	17.5	15.0	10.5	13.0
25	17.5	11.5	14.5	22.0	14.0	18.0	17.5	13.5	15.5	14.0	11.5	12.5
26	21.0	9.5	15.0	21.5	15.5	18.0	19.5	12.5	16.0	14.5	12.0	13.0
27	23.5	11.0	17.0	20.5	14.5	18.0	17.5	12.0	15.0	14.0	12.0	12.5
28	23.0	11.5	17.5	18.5	15.0	16.5	19.0	12.0	16.0	11.5	9.5	10.0
29	21.0	11.5	16.5	21.5	14.0	17.0	18.5	13.0	16.0	10.0	8.5	9.5
30	22.0	13.0	16.5	23.5	14.0	18.5	19.5	12.5	16.0	11.5	9.0	10.5
31	---	---	---	23.5	13.5	18.5	18.0	12.5	15.5	---	---	---
MONTH	23.5	6.5	14.5	23.5	9.0	17.0	23.5	12.0	17.0	20.0	8.5	13.0
YEAR	23.5	.0	9.0									

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			3.4			22			22			20
2			3.7			22			24			20
3			5.2			24			20			20
4			7.0			23			20			20
5			8.4			22			20			20
6			6.9			21			21			20
7			10			22			21			20
8			15			23			21			19
9			15			23			21			18
10			15			23			20			18
11			15			22			20			18
12			16			23			20			18
13			16			24			20			18
14			15			23			20			19
15			15			23			20			19
16			18			23			19			19
17			15			22			19			19
18			15			23			20			19
19			15			22			20			19
20			15			22			19			19
21			15			23			20			19
22			15			24			20			19
23			16			24			20			19
24			16			23			20			19
25			16			23			20			19
26			15			23			20			19
27			15			22			20			19
28			15			22			20			18
29			16			21			20			18
30			19			21			20			18
31			22						20			18
MONTH			14			23			20			19

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			18			22			22			6.6
2			17			22			22			6.1
3			17			24			21			6.2
4			18			28			21			5.9
5			18			26			20			8.2
6			18			24			21			8.0
7			19			23			21			8.4
8			19			22			20			8.0
9			19			22			21			7.5
10			19			22			20			8.2
11			19			21			20			8.6
12			20			23			20			10
13			20			25			20			16
14			20			27			16			16
15			20			30			16			14
16			25			29			17			11
17			23			26			16			11
18			28			25			10			12
19			25			24			11			11
20			28			23			9.9			12
21			33			22			10			13
22			37			22			10			9.3
23			39			21			10			8.0
24			32			21			8.1			11
25			24			21			9.1			11
26			23			21			8.5			10
27			23			21			8.3			11
28			22			21			6.7			13
29						22			7.5			10
30						22			7.1			9.4
31						21						11
MONTH			23			23			15			10

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			11			10			9.1			21
2			12			7.4			12			21
3			11			4.6			14			20
4			11			6.5			12			19
5			10			7.9			13			19
6			9.7			7.1			13			20
7			9.2			7.5			13			19
8			9.2			7.2			14			22
9			8.7			10			16			24
10			7.2			8.6			17			27
11			8.3			6.9			19			33
12			9.0			7.6			21			33
13			8.0			5.9			33			35
14			8.3			4.6			24			35
15			8.0			6.8			22			32
16			7.8			5.1			20			30
17			9.2			5.2			23			27
18			8.2			6.4			33			27
19			10			9.2			22			29
20			10			7.4			20			30
21			11			5.6			20			28
22			11			8.0			20			26
23			11			8.9			24			25
24			12			8.6			23			24
25			12			8.1			21			24
26			12			8.2			22			26
27			11			11			21			27
28			11			24			22			30
29			10			18			23			30
30			9.0			11			24			30
31						8.5			23			
MONTH			9.9			8.5			20			26
YEAR	---	---	18									

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2220	2140	2180	1680	1660	1670	1490	1440	1460	1420	1370	1390
2	2330	2130	2230	1690	1650	1670	1470	1400	1450	1500	1390	1440
3	2150	2040	2080	1660	1630	1640	1470	1450	1460	1480	1420	1450
4	2140	1950	2050	1630	1610	1620	1470	1430	1450	1570	1470	1520
5	2100	1950	2000	1620	1600	1600	1460	1440	1450	1470	1370	1420
6	2130	2030	2080	1600	1580	1600	1460	1450	1450	1570	1370	1450
7	2150	1860	2030	1600	1560	1580	1470	1440	1450	1700	1490	1610
8	1870	1770	1820	1570	1540	1550	1460	1440	1450	1640	1510	1590
9	1850	1800	1830	1550	1530	1540	1450	1440	1450	1520	1450	1480
10	1830	1810	1820	1550	1530	1540	1450	1430	1440	1490	1410	1450
11	1820	1730	1780	1540	1530	1540	1450	1430	1440	1440	1380	1420
12	1800	1680	1770	1540	1500	1520	1440	1430	1440	---	---	---
13	1800	1770	1790	1500	1470	1480	1440	1430	1430	1430	1390	1410
14	1810	1770	1800	1480	1460	1470	1440	1430	1430	1450	1420	1440
15	1820	1750	1780	1480	1450	1470	1440	1420	1440	1440	1390	1410
16	1800	1640	1770	1470	1450	1460	1440	1420	1430	---	---	---
17	1810	1790	1800	1460	1440	1450	1430	1280	1390	---	---	---
18	1800	1770	1790	1460	1430	1440	1530	1340	1450	---	---	---
19	1820	1760	1790	1470	1440	1450	1440	1420	1430	---	---	---
20	1810	1790	1800	1460	1450	1460	1460	1440	1450	---	---	---
21	1810	1780	1800	1460	1440	1450	1450	1400	1420	---	---	---
22	1800	1770	1790	1450	1420	1430	1440	1410	1430	---	---	---
23	1800	1780	1790	1430	1400	1420	1500	1390	1450	---	---	---
24	1800	1750	1780	1460	1420	1440	1460	1400	1430	---	---	---
25	1770	1740	1760	1460	1420	1440	---	---	---	1420	1380	1410
26	1770	1750	1770	1480	1440	1460	---	---	---	1430	1380	1410
27	1760	1700	1720	1460	1420	1440	---	---	---	1420	1360	1390
28	1730	1700	1710	1470	1430	1450	1600	1400	1530	1490	1400	1430
29	1730	1660	1700	1470	1440	1450	1560	1400	1500	1440	1380	1410
30	1690	1630	1660	1460	1440	1450	1390	1340	1370	1520	1410	1450
31	1680	1650	1670	---	---	---	1430	1360	1400	1500	1390	1420
MONTH	2330	1630	1840	1690	1400	1510	1600	1280	1440	1700	1360	1450

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1420	1390	1410	1350	1320	1330				---	---	---
2	1440	1310	1420	1350	1300	1330				---	---	---
3	---	---	---	1300	1180	1230				---	---	---
4	---	---	---	1280	1200	1240				1850	1810	1830
5	1500	1410	1450	1300	1250	1280				---	---	---
6	1620	1510	1560	1370	1290	1330				---	---	---
7	1580	1480	1530	1360	1320	1340				---	---	---
8	1500	1410	1450	1340	1310	1330				---	---	---
9	1440	1420	1430	1340	1290	1320				---	---	---
10	1430	1340	1390	1320	1270	1310				---	---	---
11	---	---	---	---	---	---				---	---	---
12	1410	1350	1380	---	---	---				---	---	---
13	---	---	---	---	---	---				---	---	---
14	---	---	---	---	---	---				---	---	---
15	---	---	---	---	---	---				---	---	---
16	1350	1170	1290	---	---	---				---	---	---
17	1310	1010	1190	---	---	---				1830	1790	1810
18	1350	1080	1230	---	---	---				1850	1810	1820
19	1380	990	1230	---	---	---				1880	1810	1850
20	1330	790	1110	---	---	---				1900	1780	1840
21	1280	720	1050	---	---	---				1900	1810	1870
22	1240	710	999	---	---	---				2080	1900	2000
23	1250	840	1070	---	---	---				2090	1990	2030
24	1320	990	1190	---	---	---				2010	1920	1990
25	1350	1290	1320	---	---	---				1990	1910	1940
26	1360	1310	1330	---	---	---				2030	1960	1990
27	1340	1300	1320	---	---	---				2010	1950	1970
28	1340	1310	1330	---	---	---				1960	1740	1870
29	---	---	---	---	---	---				2010	1830	1920
30	---	---	---	---	---	---				2030	1920	1990
31	---	---	---	---	---	---				1960	1880	1930
MONTH	1620	710	1300	1370	1180	1300				2090	1740	1920

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2000	1950	1980	1950	1880	1920	1890	1810	1850	1490	1450	1470
2	1940	1900	1920	2070	1900	1980	1840	1740	1800	1490	1460	1480
3	---	---	---	2140	2010	2060	1750	1680	1710	1490	1450	1470
4	---	---	---	2060	1950	2030	1700	1620	1680	1490	1430	1470
5	---	---	---	2000	1910	1980	1710	1600	1660	1470	1410	1450
6	2190	2130	2150	2130	1920	1980	1670	1620	1640	1480	1220	1430
7	2210	2170	2190	2040	1890	1980	1710	1630	1680	1430	1390	1410
8	2220	2110	2180	2100	1870	2020	1700	1610	1650	1420	1400	1410
9	2240	2130	2190	1950	1640	1850	1690	1620	1650	1430	1350	1400
10	2310	2140	2200	1960	1860	1910	1700	1630	1670	1360	1320	1340
11	2280	2090	2190	1960	1910	1930	1670	1550	1630	1380	1310	1340
12	2150	2100	2120	1970	1880	1920	1620	1550	1580	1380	1240	1290
13	2210	2120	2170	2050	1950	2000	1590	1000	1350	1320	1180	1240
14	2170	2100	2130	2080	2000	2040	1630	1540	1580	1190	1100	1160
15	2190	2120	2150	2000	1920	1990	1640	1570	1610	1100	1060	1080
16	2170	2100	2140	2080	1970	2000	1650	1610	1630	1150	1060	1100
17	2110	2020	2060	2050	1980	2020	1650	910	1570	1170	1130	1150
18	2180	2040	2100	2020	1910	1990	1520	980	1310	1210	1160	1180
19	2160	2050	2100	1910	1830	1880	1530	1450	1490	1330	1200	1260
20	2120	2060	2080	2010	1830	1930	1560	1520	1540	1530	1330	1430
21	2090	1990	2040	2030	1970	2000	1560	1520	1530	1630	1530	1590
22	2100	2020	2070	1990	1880	1940	1550	1490	1520	1680	1630	1650
23	2080	2000	2050	1910	1840	1880	1530	1200	1450	1630	1360	1440
24	2020	1970	2000	1890	1850	1860	1550	1330	1470	1390	1350	1370
25	1980	1940	1970	1910	1810	1860	1540	1500	1520	1380	1360	1370
26	1980	1930	1960	1910	1790	1870	1550	1490	1520	1360	1350	1360
27	1970	1920	1950	1860	1800	1840	1570	1500	1540	1370	1320	1340
28	1970	1920	1940	1810	1190	1640	1560	1510	1530	1350	1320	1340
29	1980	1900	1940	1750	1260	1610	1540	1470	1510	1350	1330	1340
30	1990	1930	1960	1820	1740	1780	1510	1470	1490	1350	1320	1330
31	---	---	---	1910	1770	1840	1490	1450	1470	---	---	---
MONTH	2310	1900	2070	2140	1190	1920	1890	910	1580	1680	1060	1360
YEAR	2330	710	1630									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	5.0	11.5	7.5	.5	4.0	.5	.0	.0	.0	.0	.0
2	16.5	9.0	12.0	8.5	1.5	5.0	.5	.0	.0	.0	.0	.0
3	15.0	10.5	12.5	9.0	2.0	5.5	.5	.0	.0	.0	.0	.0
4	12.5	10.0	11.5	9.5	2.5	5.5	.0	.0	.0	.0	.0	.0
5	14.5	8.5	11.0	8.0	.5	5.5	.5	.0	.0	.0	.0	.0
6	17.5	6.0	11.5	9.0	3.0	6.0	2.5	.0	1.0	.5	.0	.0
7	16.5	7.0	11.5	9.0	5.5	6.5	4.0	.0	1.5	.5	.0	.0
8	12.5	9.5	11.0	8.0	3.5	5.5	3.5	.0	1.5	.5	.0	.0
9	14.5	7.5	10.5	8.0	2.0	5.0	3.5	.0	1.0	.0	.0	.0
10	15.0	5.5	11.0	7.0	1.5	4.0	4.5	.0	1.5	.0	.0	.0
11	11.0	7.5	9.0	7.0	1.0	4.0	5.0	1.0	2.5	.0	.0	.0
12	12.0	6.5	9.0	7.0	1.0	4.0	4.5	.0	2.0	.0	.0	.0
13	13.0	7.0	10.0	8.5	2.0	5.0	3.5	1.0	2.0	.0	.0	.0
14	12.5	8.5	10.5	7.5	4.5	6.0	3.0	.0	1.5	.0	.0	.0
15	10.0	7.0	8.5	8.5	4.5	6.5	4.5	1.0	2.5	.0	.0	.0
16	10.0	7.0	8.5	9.0	3.5	6.0	1.5	.0	1.0	.0	.0	.0
17	12.5	7.0	9.5	6.5	2.0	4.5	1.0	.0	.5	.0	.0	.0
18	13.5	6.0	9.5	4.5	2.5	3.5	.5	.0	.0	.0	.0	.0
19	13.0	4.5	8.5	3.5	.0	1.5	2.0	.0	1.0	.0	.0	.0
20	13.0	4.0	8.5	2.5	.0	1.0	5.0	1.0	3.0	.0	.0	.0
21	12.0	4.5	8.0	4.0	.0	2.0	3.5	1.5	2.5	---	---	---
22	11.0	3.5	7.0	5.5	1.5	3.5	1.5	.0	.5	---	---	---
23	11.0	2.5	6.5	7.0	4.0	5.0	.0	.0	.0	---	---	---
24	7.0	5.0	6.0	6.5	1.0	4.0	.0	.0	.0	---	---	---
25	10.5	3.5	6.5	4.5	.0	2.5	.0	.0	.0	---	---	---
26	11.0	2.5	6.5	.5	.0	.0	.0	.0	.0	---	---	---
27	10.5	4.5	7.0	.0	.0	.0	.0	.0	.0	---	---	---
28	10.0	3.5	6.5	.5	.0	.0	.0	.0	.0	---	---	---
29	8.0	6.0	7.5	.5	.0	.0	.0	.0	.0	---	---	---
30	6.0	1.5	4.0	.5	.0	.0	.0	.0	.0	---	---	---
31	6.5	.0	3.0	---	---	---	.0	.0	.0	---	---	---
MONTH	19.0	.0	9.0	9.5	.0	3.5	5.0	.0	1.0	.5	.0	.0

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	8.0	4.5	6.5	16.5	8.0	12.0
2				---	---	---	11.0	3.0	6.0	19.0	7.5	13.0
3				---	---	---	12.5	2.0	7.0	16.0	10.5	13.0
4				---	---	---	10.0	4.0	7.0	14.5	9.5	12.0
5				---	---	---	11.5	1.0	6.0	17.5	5.5	11.0
6				---	---	---	8.5	4.5	6.5	17.5	1.5	9.5
7				---	---	---	7.5	2.5	5.0	18.5	4.0	11.0
8				---	---	---	10.0	.0	4.5	18.0	8.5	12.5
9				---	---	---	12.0	1.0	6.0	17.5	8.0	12.0
10				---	---	---	13.5	1.5	7.0	17.0	6.5	11.0
11				---	---	---	15.0	5.0	10.0	15.0	7.5	11.0
12				---	---	---	14.5	8.0	10.5	9.0	6.0	7.0
13				---	---	---	15.0	5.5	10.0	12.0	5.5	8.5
14				---	---	---	16.0	5.5	10.5	18.5	7.0	11.5
15				---	---	---	14.0	5.0	9.5	19.0	6.5	12.5
16				---	---	---	14.0	3.5	8.0	19.5	7.0	12.5
17				---	---	---	15.0	1.5	8.0	21.5	7.0	14.0
18				---	---	---	16.0	3.5	9.5	20.5	9.0	14.5
19				---	---	---	9.5	2.5	5.5	---	---	---
20				---	---	---	6.5	.0	3.0	---	---	---
21				---	---	---	13.5	.0	5.5	---	---	---
22				8.5	2.5	6.0	17.0	.5	8.5	---	---	---
23				10.5	.0	5.0	15.5	4.5	10.0	---	---	---
24				11.5	1.5	6.5	19.0	5.5	12.0	---	---	---
25				12.5	2.0	7.5	18.0	5.5	11.5	---	---	---
26				8.0	5.0	6.5	14.5	7.0	10.5	---	---	---
27				11.0	5.5	8.0	16.5	7.0	11.0	19.5	9.5	14.5
28				11.5	4.5	8.0	20.5	5.0	12.5	20.5	9.5	14.5
29				7.5	3.0	5.5	17.0	8.0	11.5	21.5	8.5	14.5
30				7.0	1.0	3.5	19.0	4.5	11.5	18.5	9.5	13.0
31				10.5	.0	5.0	---	---	---	25.0	8.0	15.5
MONTH				12.5	.0	6.0	20.5	.0	8.5	25.0	1.5	12.0

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	9.5	14.5	24.0	14.0	18.5	25.5	14.5	19.5	23.0	12.0	17.5
2	23.5	9.0	16.0	26.0	9.5	17.0	26.0	18.0	20.5	22.0	10.5	16.0
3	25.0	11.5	17.5	26.5	9.5	17.5	---	---	---	22.0	10.5	16.0
4	23.5	9.0	16.0	26.0	10.0	17.5	---	---	---	19.0	12.0	15.5
5	22.0	9.5	15.0	20.0	13.5	16.5	---	---	---	22.0	8.0	15.5
6	23.0	8.0	15.0	25.5	9.0	17.0	---	---	---	20.0	11.0	15.0
7	23.0	8.0	15.0	26.5	10.0	18.0	---	---	---	17.5	10.5	15.0
8	22.5	9.0	15.5	24.0	13.0	18.0	---	---	---	18.5	11.0	15.0
9	25.0	8.0	16.0	24.0	13.5	18.5	---	---	---	19.0	10.5	15.5
10	23.5	10.5	16.5	27.5	11.0	19.0	---	---	---	19.0	13.0	15.5
11	27.0	11.5	18.5	26.5	13.0	19.0	---	---	---	15.0	10.5	13.0
12	21.5	12.5	17.0	27.0	11.5	19.5	---	---	---	16.0	10.0	12.5
13	23.0	11.5	16.5	23.0	13.5	17.5	---	---	---	12.0	8.5	10.5
14	21.5	11.5	15.5	26.5	12.0	19.0	---	---	---	12.0	8.0	10.0
15	21.5	12.0	16.0	26.0	12.0	19.0	---	---	---	16.0	8.0	11.0
16	27.5	12.0	18.5	26.0	11.0	18.0	---	---	---	17.5	10.0	13.5
17	26.5	13.5	19.5	24.5	14.5	19.0	---	---	---	18.5	12.0	15.0
18	22.5	14.0	17.5	25.5	13.0	19.5	---	---	---	19.0	10.0	14.0
19	25.5	11.0	17.5	27.5	13.0	20.0	---	---	---	16.0	11.0	13.5
20	28.5	11.5	19.0	28.0	13.0	20.0	---	---	---	17.0	10.0	13.5
21	22.0	11.5	17.0	29.5	13.5	21.0	---	---	---	18.5	10.5	14.5
22	21.5	12.5	17.0	28.0	16.0	21.0	---	---	---	18.5	10.5	14.5
23	24.5	10.5	17.5	29.5	15.0	21.5	---	---	---	20.0	11.5	15.0
24	25.5	12.5	18.5	27.5	16.0	21.5	---	---	---	18.5	10.0	14.5
25	24.5	12.0	16.5	27.0	15.5	21.0	---	---	---	14.0	11.5	13.0
26	28.0	10.0	18.0	29.0	16.5	21.5	---	---	---	18.5	12.0	14.5
27	29.0	11.0	20.0	26.5	16.5	21.0	---	---	---	14.5	10.5	12.5
28	27.5	12.5	19.5	22.0	15.5	19.0	---	---	---	11.5	9.0	10.0
29	24.5	12.0	18.0	23.5	16.5	19.0	---	---	---	9.5	7.5	9.0
30	26.0	14.0	18.5	24.5	15.5	20.0	---	---	---	11.5	7.0	9.5
31	---	---	---	26.0	15.0	20.0	---	---	---	---	---	---
MONTH	29.0	8.0	17.0	29.5	9.0	19.0	26.0	14.5	20.0	23.0	7.0	13.5
YEAR	29.5	.0	9.5									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			5.8			36			25			24
2			6.5			37			26			24
3			7.5			37			28			24
4			8.0			36			28			24
5			10			35			29			24
6			9.0			33			31			24
7			8.2			33			31			24
8			14			34			31			24
9			18			35			30			24
10			18			34			30			24
11			22			34			30			24
12			25			33			30			24
13			28			36			29			24
14			34			36			29			24
15			32			35			29			24
16			38			35			29			24
17			30			34			29			24
18			27			34			23			24
19			26			34			30			24
20			27			33			29			24
21			26			34			30			24
22			25			35			28			24
23			25			36			21			24
24			26			35			16			24
25			28			35			22			24
26			24			30			22			24
27			24			28			22			24
28			24			28			24			24
29			30			27			24			24
30			33			27			24			24
31			34						24			24
MONTH			22			34			27			24

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			25			38			28			8.6
2			25			38			32			7.8
3			25			40			30			8.4
4			25			42			29			7.7
5			25			40			29			5.6
6			25			37			29			5.8
7			25			37			31			5.8
8			25			37			28			5.9
9			25			36			30			5.5
10			25			35			29			5.7
11			26			35			29			6.2
12			26			35			29			7.0
13			27			39			29			11
14			28			39			23			7.1
15			29			41			21			7.4
16			38			43			22			5.8
17			32			41			22			5.3
18			43			37			18			4.9
19			38			35			15			5.4
20			50			34			15			4.7
21			66			32			14			4.7
22			70			30			14			4.5
23			60			30			14			3.7
24			57			28			12			3.3
25			44			28			11			3.0
26			41			28			12			3.2
27			40			33			12			3.6
28			38			30			8.9			5.1
29						29			8.7			3.6
30						31			9.2			3.0
31						28						2.4
MONTH			36			35			21			5.5

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			1.8			4.5			10			23
2			1.8			4.2			20			26
3			1.6			4.0			23			27
4			1.8			4.0			19			28
5			1.7			3.5			17			45
6			1.7			4.0			15			30
7			1.5			3.7			13			27
8			1.5			3.6			14			28
9			1.6			3.6			17			28
10			1.9			3.2			18			32
11			2.1			3.1			19			43
12			1.9			3.1			23			45
13			1.8			3.2			29			49
14			2.2			3.6			32			47
15			2.0			3.1			27			45
16			2.2			2.9			20			39
17			2.0			3.0			16			34
18			2.0			2.5			27			33
19			1.7			2.9			26			35
20			1.3			3.0			20			38
21			1.2			2.8			16			34
22			1.2			3.0			16			32
23			1.5			3.2			19			31
24			1.8			3.3			22			28
25			1.7			3.8			19			27
26			2.0			3.5			19			28
27			2.2			2.8			16			37
28			2.4			16			16			40
29			2.9			40			16			37
30			3.7			21			17			35
31						14			20			
MONTH			1.9			5.9			19			34
YEAR	---	---	22									

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3180	3090	3130	2170	2110	2130	---	---	---	---	---	---
2	3270	2860	3060	2220	2140	2170	---	---	---	---	---	---
3	3550	2910	3070	2220	2110	2150	---	---	---	---	---	---
4	3080	2710	2990	2130	2100	2110	---	---	---	---	---	---
5	2950	2510	2820	2110	2090	2100	---	---	---	2110	1980	2060
6	2950	2870	2900	2100	2080	2090	2030	1910	2000	---	---	---
7	3030	2930	2980	2100	2060	2090	2030	1950	2010	2390	1990	2090
8	3020	2480	2740	2070	2010	2020	2020	1930	2000	3070	2340	2650
9	2490	2410	2430	2030	2000	2010	2020	1930	2000	2680	2200	2410
10	2470	2410	2440	2020	1990	2000	2010	1980	2000	2190	2050	2130
11	2460	1780	2340	2020	1990	2000	2030	1990	2000	2120	2000	2070
12	2460	2340	2400	2020	1980	2000	2030	1990	2010	2010	1920	1970
13	2490	2240	2430	2000	1920	1950	2010	1990	2000	2080	1920	2020
14	2350	2250	2330	1940	1920	1930	2010	1990	2000	2180	1980	2120
15	2410	2050	2320	1930	1920	1930	2040	2000	2010	2440	1920	2210
16	2330	2240	2280	1930	1920	1930	2050	1940	1990	2170	1910	2030
17	2380	2260	2340	1950	1930	1940	---	---	---	2040	1870	1970
18	2380	2350	2370	1960	1910	1930	---	---	---	2130	1850	1960
19	2360	2310	2340	1970	1890	1940	1980	1830	1900	2340	1820	2010
20	2330	2210	2300	2010	1860	1950	2050	1890	2000	2260	1900	2080
21	2330	2280	2300	1990	1930	1960	2050	1980	2010	---	---	---
22	2320	2270	2290	1980	1930	1950	2010	1970	1990	---	---	---
23	2310	2260	2290	1960	1940	1950	2220	1970	2060	---	---	---
24	2290	2270	2280	1950	1940	1940	2980	2070	2400	---	---	---
25	2280	2210	2230	1970	1910	1940	2660	1980	2320	---	---	---
26	2320	2220	2270	---	---	---	2320	2050	2170	---	---	---
27	2310	2240	2290	---	---	---	2450	1940	2180	---	---	---
28	2250	2210	2230	---	---	---	2330	2030	2180	---	---	---
29	2320	2140	2230	---	---	---	2800	2080	2500	---	---	---
30	2260	2110	2160	---	---	---	2090	1970	2060	---	---	---
31	2180	2070	2120	---	---	---	---	---	---	---	---	---
MONTH	3550	1780	2470	2220	1860	2000	2980	1830	2080	3070	1820	2120

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	1920	1860	1890	2360	2180	2270
2				---	---	---	1860	1780	1810	2420	2140	2300
3				---	---	---	1880	1830	1860	2460	2130	2340
4				---	---	---	1900	1860	1880	2580	2360	2450
5				---	---	---	1900	1860	1880	3370	2320	2900
6				---	---	---	1940	1890	1920	3420	2870	3130
7				---	---	---	1910	1860	1880	3000	2890	2950
8				---	---	---	2100	1770	1920	3090	2860	2940
9				---	---	---	2020	1920	1950	3080	2940	2990
10				---	---	---	1970	1930	1950	3110	2840	2880
11				---	---	---	1980	1940	1950	2910	2750	2820
12				---	---	---	1980	1930	1960	3550	2590	2980
13				---	---	---	1950	1840	1920	3250	2720	2880
14				---	---	---	1870	1800	1850	3220	2680	2980
15				---	---	---	1860	1800	1840	3450	2630	2850
16				---	---	---	1800	1710	1760	3440	2930	3180
17				---	---	---	1770	1690	1720	3470	3080	3330
18				---	---	---	2030	1690	1870	3660	3340	3520
19				---	---	---	2130	2020	2080	3580	3000	3160
20				---	---	---	2140	1850	2030	3560	3180	3360
21				---	---	---	2250	2020	2090	4360	3140	3550
22				1840	1780	1810	2130	2010	2070	3770	3400	3630
23				1820	1760	1800	2130	1980	2050	4210	3640	3900
24				1840	1790	1820	2200	1930	2070	4240	3750	4090
25				1840	1820	1830	2230	2040	2140	3590	3010	3300
26				1860	1780	1840	2210	1880	2090	3820	2870	3560
27				1810	1790	1800	2110	1890	2050	4450	3350	3800
28				1840	1800	1820	2140	1840	2110	4390	3400	3820
29				1860	1810	1840	2410	2180	2350	4900	4470	4730
30				1830	1770	1790	2260	2130	2220	5120	4470	4810
31				1900	1800	1860	---	---	---	5920	4710	5280
MONTH				1900	1760	1820	2410	1690	1970	5920	2130	3310

STATION NUMBER 09306222 PICEANCE CREEK AT WHITE RIVER, CO STREAM SOURCE AGENCY USGS
LATITUDE 400516 LONGITUDE 1081435 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5970	4470	5100	---	---	---	---	---	---	2100	2000	2040
2	5150	4620	4890	---	---	---	---	---	---	---	---	---
3	5330	5140	5250	---	---	---	---	---	---	---	---	---
4	5280	4300	4780	---	---	---	---	---	---	---	---	---
5	5050	4420	4680	---	---	---	2400	2260	2330	---	---	---
6	4960	4400	4760	---	---	---	2510	2200	2370	---	---	---
7	4910	4530	4700	---	---	---	2630	2420	2520	1840	1790	1800
8	5550	4600	4980	---	---	---	2480	2330	2440	1850	1790	1820
9	5590	3940	4780	---	---	---	2550	2240	2390	1830	1780	1800
10	5150	3670	4430	---	---	---	2330	2240	2280	---	---	---
11	---	---	---	---	---	---	2300	2230	2260	---	---	---
12	---	---	---	---	---	---	2270	2020	2130	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	2240	2140	2180	---	---	---
17	---	---	---	---	---	---	2270	2190	2230	---	---	---
18	---	---	---	---	---	---	2250	1420	1910	---	---	---
19	---	---	---	---	---	---	1980	1510	1790	---	---	---
20	---	---	---	4030	3820	3910	2270	1960	2070	---	---	---
21	---	---	---	4480	3790	4050	2220	2160	2190	---	---	---
22	---	---	---	4220	3850	3980	2210	2150	2180	---	---	---
23	5650	4500	5000	4020	3190	3690	2170	1970	2110	1800	1680	1700
24	5540	3960	4600	3890	3170	3410	2000	1890	1950	1700	1650	1690
25	5160	4960	5060	3630	2660	3170	2230	1980	2060	1700	1670	1680
26	5040	4560	4830	3880	2920	3270	2110	2010	2050	1710	1670	1690
27	5040	4480	4830	4640	3150	3890	2160	2020	2110	1790	1450	1680
28	5020	4450	4770	4450	3640	4050	2170	2020	2130	1750	1480	1680
29	4390	3830	4010	---	---	---	---	---	---	1740	1600	1700
30	---	---	---	---	---	---	---	---	---	1700	1680	1690
31	---	---	---	---	---	---	2150	2020	2120	---	---	---
MONTH	5970	3670	4790	4640	2660	3710	2630	1420	2170	2100	1450	1750
YEAR	5970	1420	2530									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	6.5	14.5	---	---	---	---	---	---	.5	.0	.0
2	16.0	8.5	11.5	---	---	---	---	---	---	.0	.0	.0
3	17.0	10.5	12.5	---	---	---	---	---	---	.0	.0	.0
4	12.0	8.5	10.5	---	---	---	---	---	---	.0	.0	.0
5	18.5	7.0	11.0	---	---	---	---	---	---	.0	.0	.0
6	20.5	4.5	11.5	---	---	---	---	---	---	.0	.0	.0
7	19.0	6.5	10.0	---	---	---	2.0	.0	.5	.0	.0	.0
8	14.5	9.5	11.5	---	---	---	3.0	.0	.5	.0	.0	.0
9	17.0	6.0	10.5	---	---	---	2.5	.0	.5	.0	.0	.0
10	16.5	5.0	10.0	---	---	---	5.0	.0	1.5	.0	.0	.0
11	12.0	6.0	8.0	---	---	---	5.5	.0	1.5	.0	.0	.0
12	17.0	5.0	9.5	---	---	---	4.0	.0	1.5	.0	.0	.0
13	16.5	5.0	10.0	---	---	---	6.0	.5	2.0	.0	.0	.0
14	13.0	5.5	9.0	---	---	---	5.0	.0	1.5	.0	.0	.0
15	9.5	5.0	7.0	---	---	---	6.5	.5	3.0	.0	.0	.0
16	11.0	5.0	7.5	11.5	5.0	8.5	2.5	.0	.5	.0	.0	.0
17	15.0	5.0	9.5	8.5	.5	3.5	.0	.0	.0	.0	.0	.0
18	17.0	3.0	8.5	5.5	.5	2.5	.0	.0	.0	.0	.0	.0
19	16.5	1.5	7.5	2.5	.0	1.0	2.0	.0	.5	.5	.0	.0
20	15.5	1.5	7.5	1.5	.0	.5	6.0	.0	2.5	1.5	.0	.5
21	---	---	---	4.0	.0	1.0	3.5	.0	1.5	1.5	.0	.5
22	---	---	---	8.0	.0	3.0	1.5	.0	.5	1.5	.0	.5
23	---	---	---	9.5	2.5	5.0	.0	.0	.0	.0	.0	.0
24	---	---	---	8.5	.0	3.0	.0	.0	.0	3.0	.0	1.0
25	---	---	---	4.0	.0	1.5	.0	.0	.0	2.5	.0	1.0
26	---	---	---	---	---	---	.0	.0	.0	3.0	.5	1.5
27	---	---	---	---	---	---	.0	.0	.0	3.5	1.0	2.0
28	---	---	---	---	---	---	.0	.0	.0	1.0	.5	.5
29	---	---	---	---	---	---	.0	.0	.0	3.0	.0	1.0
30	---	---	---	---	---	---	.0	.0	.0	.5	.0	.0
31	---	---	---	---	---	---	.0	.0	.0	2.0	.0	.5
MONTH	21.0	1.5	10.0	11.5	.0	3.0	6.5	.0	.5	3.5	.0	.5

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	.0	1.5	8.0	1.0	4.0	10.5	.0	5.0	20.5	4.5	12.0
2	3.0	.0	1.0	7.5	.5	4.5	14.0	.0	5.5	20.5	5.5	12.5
3	1.5	.0	.5	7.5	.0	4.5	18.5	.0	6.5	18.0	9.0	12.5
4	.5	.0	.0	8.5	1.5	4.0	14.0	.5	5.5	18.0	6.5	11.5
5	.5	.0	.0	9.0	.5	3.5	16.5	.0	5.5	20.5	2.5	16.0
6	.5	.0	.0	10.0	1.5	4.5	12.5	.5	5.5	21.5	.0	9.0
7	.5	.0	.5	8.5	.0	4.0	11.0	.0	4.0	21.5	2.0	12.0
8	.5	.0	.0	11.5	.5	4.0	13.5	.0	3.5	20.0	6.0	12.0
9	.0	.0	.0	12.0	.0	6.0	17.0	.0	5.0	19.0	6.0	11.5
10	1.0	.0	.0	9.5	.5	4.5	18.0	.0	6.5	19.5	5.0	10.5
11	2.0	.5	1.0	9.0	1.5	3.5	18.5	2.0	9.0	19.5	5.5	8.5
12	2.0	.5	1.0	---	---	---	17.0	5.0	10.0	8.5	4.0	6.5
13	2.5	.5	1.5	---	---	---	21.5	2.5	10.5	16.5	5.5	8.0
14	2.5	2.0	2.0	---	---	---	21.0	.0	9.5	23.0	6.5	12.5
15	2.5	2.0	2.0	---	---	---	19.0	.5	8.5	22.0	4.5	12.0
16	2.5	.0	1.5	---	---	---	18.5	.0	8.0	24.0	5.0	12.0
17	1.0	.0	.5	---	---	---	18.5	.0	7.0	24.0	5.5	14.0
18	.0	.0	.0	---	---	---	18.5	.0	7.5	23.0	7.0	14.0
19	.0	.0	.0	---	---	---	15.5	.0	4.5	25.5	6.0	14.5
20	2.0	.0	.5	---	---	---	11.5	.0	3.0	25.5	6.0	14.5
21	2.5	.0	.5	---	---	---	18.0	.0	6.5	27.5	5.0	15.5
22	---	---	---	14.0	.5	8.0	22.0	.0	8.5	28.5	5.5	15.0
23	4.0	.0	1.5	15.0	.0	5.0	14.5	1.0	7.0	28.0	8.5	16.0
24	6.5	.0	2.5	16.0	.0	5.5	23.5	2.0	10.5	26.0	6.5	18.5
25	8.5	.0	3.0	18.5	.0	7.0	23.0	1.5	10.5	26.0	5.0	14.5
26	8.0	.5	3.5	9.0	3.0	6.0	19.5	4.5	10.0	28.0	7.0	16.5
27	8.0	.5	4.0	13.5	4.5	7.5	22.0	5.5	11.0	25.5	7.5	15.0
28	10.0	.0	4.0	16.5	2.5	7.5	23.0	2.0	11.0	23.5	8.0	14.0
29	---	---	---	5.5	.0	3.0	20.5	5.0	10.0	25.0	5.0	14.5
30	---	---	---	10.5	.0	3.0	22.5	1.5	11.0	21.5	8.5	13.0
31	---	---	---	15.5	.0	5.5	---	---	---	28.0	5.0	14.5
MONTH	10.0	.0	1.0	18.5	.0	5.0	23.5	.0	7.5	28.5	.0	13.0

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	8.0	13.0	26.0	12.5	18.5	29.5	13.0	21.0	27.5	11.0	19.0
2	26.0	5.5	14.5	29.0	8.5	18.0	30.5	17.0	21.5	26.5	9.0	17.5
3	27.5	9.0	17.0	29.0	8.5	18.5	28.0	15.0	20.5	25.5	9.0	17.0
4	26.5	6.0	15.0	28.0	9.5	18.0	29.0	13.0	21.0	24.0	11.0	16.5
5	24.5	6.5	14.0	22.5	13.5	17.0	32.0	13.5	20.5	26.0	14.0	18.0
6	25.0	4.5	13.5	27.5	8.0	17.0	32.0	13.0	21.5	27.0	10.5	17.5
7	25.0	3.5	13.0	28.5	9.0	18.0	31.5	14.5	21.5	21.5	12.0	16.5
8	24.5	5.5	14.0	29.0	13.0	19.0	26.0	14.5	19.5	24.5	11.0	17.0
9	28.0	4.5	14.5	28.0	13.0	19.5	31.0	14.0	21.0	25.5	11.0	18.0
10	26.0	5.0	14.5	30.5	9.5	19.5	29.0	14.0	20.5	21.5	12.5	16.5
11	29.5	7.0	17.5	29.5	12.0	19.5	27.0	15.5	19.5	15.5	12.0	13.5
12	23.5	7.0	15.0	31.0	11.0	20.5	28.5	15.0	20.0	20.5	9.0	13.5
13	25.0	8.0	15.5	27.0	13.5	18.5	22.5	15.5	18.0	12.0	9.5	10.5
14	27.5	7.5	14.5	30.5	12.0	20.5	29.5	13.0	20.0	14.5	7.0	10.5
15	25.0	9.0	15.5	28.5	12.0	19.5	28.5	14.0	21.0	19.5	7.5	13.0
16	30.0	8.0	18.0	29.0	10.5	19.5	28.0	15.0	20.5	23.0	8.5	15.0
17	30.5	10.5	19.5	26.5	14.5	20.0	27.0	14.0	20.0	22.0	11.5	16.0
18	25.0	11.5	17.0	28.5	12.5	20.5	29.5	15.0	21.5	24.5	8.0	16.0
19	29.0	7.0	17.0	30.5	12.5	21.0	31.0	14.5	21.5	21.0	10.5	15.0
20	30.5	8.5	18.5	30.0	13.0	21.0	30.5	14.0	21.0	22.5	9.5	15.5
21	26.0	10.0	17.5	32.5	13.0	22.0	32.5	15.5	22.0	25.0	9.5	16.0
22	27.0	12.0	18.0	30.0	16.0	22.5	31.0	16.5	21.5	23.0	9.5	15.5
23	26.5	10.5	17.5	31.0	15.5	22.5	29.5	14.0	21.0	24.5	10.5	16.5
24	30.5	10.0	19.0	29.0	16.5	21.0	30.0	15.0	21.5	23.0	8.0	15.0
25	28.5	8.5	15.5	30.5	14.5	21.5	21.5	14.0	17.0	15.0	11.0	13.0
26	---	---	---	32.0	16.0	22.0	28.0	12.0	18.5	20.5	12.5	15.5
27	26.5	10.5	18.0	30.5	17.0	23.0	25.5	13.0	19.5	14.0	9.0	12.0
28	29.0	11.0	20.0	24.0	17.0	20.0	23.0	13.0	18.0	13.5	7.5	9.5
29	26.5	10.0	18.0	28.5	16.5	21.5	26.0	13.0	19.0	13.0	6.5	9.0
30	26.5	13.5	18.0	31.5	13.5	22.0	25.5	12.0	18.5	16.5	7.5	10.5
31	---	---	---	32.5	13.0	22.0	25.5	11.5	18.0	---	---	---
MONTH	30.5	3.5	16.5	32.5	8.0	20.0	32.5	11.5	20.0	27.5	6.5	15.0
YEAR	32.5	.0	10.0									

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			.85			1.5			.83			1.8
2			.94			1.6			1.3			1.5
3			1.1			1.6			1.3			1.8
4			2.4			1.6			1.6			1.6
5			1.2			1.5			1.6			1.9
6			1.0			1.5			1.5			1.7
7			.96			1.5			1.5			1.2
8			1.3			1.5			1.8			1.4
9			1.1			1.5			1.9			1.5
10			1.1			1.5			2.0			1.5
11			1.3			1.5			2.0			1.5
12			1.4			1.5			2.0			1.5
13			1.3			1.5			2.0			1.5
14			1.3			1.5			1.9			1.5
15			2.2			1.5			1.9			1.7
16			1.7			1.5			1.8			1.9
17			1.6			1.5			1.7			2.0
18			1.4			1.5			1.4			2.1
19			1.4			1.5			2.2			2.6
20			1.4			1.8			2.0			2.1
21			1.4			1.8			2.1			2.1
22			1.5			1.8			1.8			2.1
23			1.5			1.7			1.6			2.1
24			1.6			1.8			1.4			2.2
25			1.5			2.0			2.1			2.1
26			1.5			1.0			1.8			2.1
27			1.5			1.1			2.0			2.1
28			1.5			1.3			1.4			2.1
29			1.6			1.3			1.4			2.0
30			1.7			1.3			1.8			2.0
31			1.5						1.7			2.2
MONTH			1.4			1.5			1.7			1.9

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			2.1			1.9			1.4			1.7
2			2.0			2.4			1.5			1.7
3			1.8			2.2			1.4			1.8
4			2.0			1.9			1.4			1.8
5			2.8			1.8			1.4			1.7
6			3.0			1.7			1.5			1.7
7			2.6			1.8			1.7			1.8
8			2.0			1.8			1.6			1.7
9			1.9			1.8			1.6			1.7
10			2.2			1.8			1.5			1.7
11			1.8			1.9			1.4			1.8
12			1.8			1.7			1.6			2.3
13			1.9			1.6			1.4			2.2
14			1.9			1.5			1.4			2.3
15			1.9			1.6			1.5			1.9
16			2.4			1.6			1.5			1.9
17			14			1.6			1.5			1.9
18			18			1.6			1.5			1.8
19			19			1.6			1.5			1.9
20			29			1.6			1.5			1.8
21			54			1.5			1.4			1.5
22			56			1.4			1.5			1.4
23			46			1.3			1.5			1.4
24			3.4			1.3			1.5			1.3
25			1.8			1.3			1.5			1.5
26			1.8			1.4			1.6			1.6
27			2.0			1.5			1.6			1.5
28			1.9			1.4			1.6			1.6
29						1.5			1.7			1.6
30						1.5			1.7			1.7
31						1.4						1.7
MONTH			10			1.6			1.5			1.7

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			1.6			1.4			.94			1.3
2			1.6			1.3			.97			1.3
3			1.6			1.3			1.1			1.3
4			1.5			1.3			1.1			1.3
5			1.5			1.3			1.0			1.3
6			1.5			1.3			1.0			1.3
7			1.5			1.2			.99			1.3
8			1.5			1.2			1.5			1.3
9			1.4			1.2			1.6			1.3
10			1.5			1.2			1.3			1.3
11			1.4			1.2			1.3			3.1
12			1.5			1.2			1.2			3.7
13			1.4			1.2			1.6			3.8
14			1.4			1.2			1.5			2.7
15			1.5			1.2			1.4			2.2
16			1.4			1.2			1.3			2.0
17			1.4			1.2			1.4			1.9
18			1.4			1.2			1.6			1.9
19			1.4			1.2			1.4			1.8
20			1.3			1.1			1.3			2.0
21			1.3			1.0			1.3			1.9
22			1.4			1.1			1.3			1.9
23			1.3			1.1			1.3			1.8
24			1.3			1.3			1.2			1.8
25			2.1			1.2			4.2			1.8
26			1.6			1.2			1.4			1.9
27			1.5			1.2			1.1			3.4
28			1.4			1.2			1.3			4.7
29			1.4			1.4			2.4			3.8
30			1.4			1.1			1.5			2.5
31						1.0			1.3			
MONTH			1.5			1.2			1.4			2.1
YEAR	---	---	2.3									

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3830	3620	3670	---	---	---	---	---	---	3810	3460	3670
2	3670	3520	3620	---	---	---	---	---	---	---	---	---
3	3720	2240	3340	---	---	---	---	---	---	---	---	---
4	3480	1110	2290	---	---	---	---	---	---	---	---	---
5	3720	1770	3400	---	---	---	---	---	---	---	---	---
6	3770	3650	3720	---	---	---	---	---	---	---	---	---
7	3770	3730	3750	---	---	---	3970	3420	3740	---	---	---
8	3780	1530	3280	---	---	---	4210	3620	3690	---	---	---
9	3830	3690	3740	---	---	---	4420	3710	4050	---	---	---
10	3810	3690	3740	---	---	---	3860	3600	3730	---	---	---
11	4030	1110	3570	---	---	---	3760	3520	3670	---	---	---
12	---	---	---	---	---	---	4010	3600	3810	3750	3580	3650
13	---	---	---	---	---	---	3790	3710	3750	3740	3550	3650
14	---	---	---	---	---	---	3860	3400	3710	3870	3570	3700
15	---	---	---	---	---	---	3770	3150	3610	3850	3500	3640
16	---	---	---	3800	3730	3750	4010	3480	3770	3620	3380	3530
17	---	---	---	3820	3370	3680	4230	3450	3820	3500	3210	3390
18	---	---	---	3780	3300	3480	4780	3610	4290	3520	3320	3360
19	3670	3600	3640	4250	3230	3750	3830	3450	3650	3620	3280	3440
20	3680	3590	3640	4290	3410	3820	3660	3360	3510	3580	3330	3440
21	3670	3640	3650	3870	2220	3520	3640	3300	3430	3520	3270	3410
22	---	---	---	3770	2400	3570	3810	3720	3540	3550	3280	3400
23	---	---	---	3800	3670	3730	4300	3790	4000	3700	3270	3490
24	---	---	---	3880	3730	3790	---	---	---	3440	3310	3380
25	---	---	---	3670	3450	3580	4300	3850	4070	3560	3250	3400
26	---	---	---	---	---	---	4570	4020	4230	3470	3150	3330
27	---	---	---	---	---	---	4090	3940	3980	3300	3020	3160
28	---	---	---	---	---	---	4420	3880	4140	3400	3030	3210
29	---	---	---	---	---	---	4250	4100	4190	3480	3290	3350
30	---	---	---	---	---	---	4100	3670	3870	3700	3180	3490
31	---	---	---	---	---	---	4040	3680	3830	3620	3250	3450
MONTH	4030	1110	3500	4290	2220	3670	4780	3150	3840	3870	3020	3450

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3370	3280	3330	---	---	---	3600	3590	3600	4000	3940	3970
2	3450	3150	3330	---	---	---	3590	3310	3400	4010	3950	3980
3	3540	3220	3370	---	---	---	3660	3570	3630	3960	3680	3870
4	3750	3350	3580	---	---	---	3630	3560	3600	3880	3420	3700
5	3710	3560	3600	---	---	---	3760	3350	3590	3690	3430	3580
6	---	---	---	---	---	---	3600	3530	3570	3780	3560	3690
7	---	---	---	---	---	---	3590	3380	3420	3800	3660	3700
8	---	---	---	---	---	---	3980	3550	3720	3830	3690	3720
9	---	---	---	3430	3070	3320	3720	3490	3600	3840	3650	3700
10	---	---	---	3500	3210	3380	3670	3560	3580	3890	3720	3790
11	---	---	---	3570	3040	3410	3670	3560	3640	3790	3470	3670
12	---	---	---	---	---	---	3650	3260	3550	3980	3720	3790
13	---	---	---	---	---	---	3740	3570	3630	3810	3670	3780
14	---	---	---	---	---	---	3740	3600	3670	3760	3680	3710
15	---	---	---	---	---	---	3720	3600	3650	3770	3400	3680
16	---	---	---	---	---	---	3740	3580	3650	3770	3190	3610
17	---	---	---	---	---	---	3820	3280	3580	3640	3020	3430
18	---	---	---	---	---	---	3750	3430	3590	3610	3550	3590
19	---	---	---	---	---	---	3830	3600	3570	3610	3550	3590
20	---	---	---	---	---	---	3870	3430	3650	3730	3440	3580
21	725	620	680	---	---	---	3910	3720	3760	3730	3430	3620
22	590	450	512	3610	3160	3530	3920	3530	3770	---	---	---
23	1140	540	769	3780	3350	3560	3730	3710	3720	3800	3600	3700
24	3250	1140	1650	3780	3340	3620	3810	3710	3750	3800	3670	3740
25	---	---	---	3670	3450	3600	3810	3660	3730	3850	3660	3720
26	---	---	---	3620	3610	3620	3900	3660	3720	3780	3500	3650
27	---	---	---	3620	3590	3580	3700	3620	3670	3750	3590	3680
28	---	---	---	3670	3610	3630	4340	3620	3830	3700	3540	3610
29	---	---	---	3640	3310	3550	3750	3510	3610	3850	3720	3760
30	---	---	---	3720	3320	3520	3650	3570	3600	3790	3510	3690
31	---	---	---	3730	3580	3620	---	---	---	3830	3640	3750
MONTH	3750	450	2310	3780	3040	3530	4340	3260	3640	4010	3020	3700

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3910	3500	3820	3770	3570	3660	---	---	---	3410	3290	3340
2	---	---	---	3780	3590	3670	3490	3100	3320	3380	3270	3320
3	---	---	---	3750	3580	3650	3500	3330	3410	3370	3270	3310
4	4300	3920	4110	3820	3540	3620	3520	3390	3440	3310	3240	3270
5	---	---	---	3810	3740	3780	3510	3390	3450	3310	3220	3250
6	---	---	---	3940	3730	3820	3500	3350	3410	3260	3170	3210
7	---	---	---	3830	3780	3830	3480	3330	3390	3210	3160	3190
8	---	---	---	3870	3740	3790	3380	1970	3190	3270	3170	3220
9	3870	3720	3800	3870	3730	3780	3430	1870	3090	3340	3230	3270
10	3710	3390	3510	3830	3700	3740	3390	3290	3340	3290	3170	3260
11	---	---	---	3780	3660	3710	3360	3050	3280	3210	1770	2730
12	---	---	---	3860	3700	3760	3320	3180	3250	3210	1080	3020
13	3820	3690	3750	3770	3680	3710	3190	1920	2880	2940	1400	2460
14	3710	3540	3600	3840	3620	3710	3330	2770	2960	3180	2610	3080
15	3660	3540	3590	3680	3560	3610	3340	3270	3300	3240	2870	3160
16	3750	3540	3620	3630	3500	3560	3280	3120	3210	3280	3210	3240
17	3780	3570	3650	3550	3460	3500	3240	3080	3160	3250	3060	3210
18	3670	3580	3610	3580	3450	3500	3290	3020	3140	3270	3190	3220
19	3770	3580	3640	3570	3410	3480	3360	3260	3300	3230	3150	3190
20	3800	3590	3670	3540	3380	3450	3340	3240	3270	3180	3040	3120
21	3720	3600	3650	3570	3400	3470	3340	3220	3260	3150	3070	3120
22	3710	3590	3630	3720	3400	3510	3280	3200	3230	3230	2970	3100
23	3710	3590	3640	3640	3430	3490	3280	3160	3200	3220	2980	3130
24	3810	3590	3680	3980	2340	3280	3240	3100	3160	3200	3020	3110
25	3890	810	3200	3420	2320	3340	3140	1380	2610	3180	2980	3090
26	---	---	---	3520	3370	3420	3410	3080	3130	3180	3010	3040
27	3840	3760	3800	3490	3380	3420	3480	2960	3270	3180	1370	2630
28	3950	3690	3780	3410	3310	3370	3400	2960	3310	3140	1000	2530
29	3910	3720	3790	3490	2580	3240	3330	1610	2880	3100	1350	2610
30	3880	3650	3770	---	---	---	3430	3310	3360	3120	2960	3050
31	---	---	---	---	---	---	3410	3300	3350	---	---	---
MONTH	4300	810	3680	3980	2320	3580	3520	1380	3220	3410	1000	3080
YEAR	4780	450	3480									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1			35			---			67			---
2			44			---			75			---
3			1650			---			---			291
4			9820			200			---			161
5			---			---			---			152
6			---			---			---			139
7			327			60			231			---
8			1990			---			---			---
9			---			---			---			103
10			140			---			---			125
11			---			---			199			144
12			---			180			---			170
13			300			---			---			---
14			---			---			---			211
15			---			96			---			---
16			420			113			202			---
17			---			---			---			170
18			---			120			---			---
19			27			120			150			---
20			25			140			---			400
21			65			171			---			---
22			28			115			---			---
23			35			---			---			---
24			15			144			---			420
25			42			150			---			---
26			133			---			116			---
27			40			63			---			---
28			12			63			---			360
29			110			---			---			---
30			130			---			---			---
31			270						---			440
MONTH			712			124			149			235

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			---			---			---			280
2			---			---			496			---
3			---			---			381			---
4			374			260			---			---
5			---			---			---			296
6			---			320			638			---
7			196			---			440			---
8			---			---			400			---
9			---			1000			---			280
10			269			600			373			---
11			---			990			---			---
12			---			---			305			700
13			---			585			271			---
14			492			419			---			---
15			---			---			284			328
16			1100			475			708			---
17			3220			300			---			---
18			3450			---			321			611
19			4860			---			---			---
20			6980			280			560			---
21			8800			---			400			---
22			8560			495			400			---
23			12000			---			---			191
24			1560			540			---			152
25			---			540			277			---
26			---			772			---			---
27			---			252			285			---
28			2280			---			---			---
29						---			---			110
30						540			---			---
31						450						---
MONTH			3870			519			409			328

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1			128			103			---			61
2			---			---			32			---
3			---			---			---			---
4			93			106			---			---
5			---			---			99			6
6			---			---			---			---
7			---			---			---			---
8			---			---			2790			13
9			32			36			---			---
10			---			---			---			---
11			---			31			450			2250
12			---			---			---			---
13			36			---			2370			---
14			---			54			118			1200
15			---			---			---			---
16			24			---			---			---
17			---			56			---			94
18			---			---			550			22
19			15			---			---			---
20			---			57			---			---
21			---			---			---			---
22			---			---			55			76
23			21			---			---			11
24			---			2200			---			---
25			---			---			11200			14
26			---			---			---			---
27			116			---			---			2180
28			---			---			880			2140
29			---			93			1700			---
30			---			---			---			---
31						---			---			
MONTH			58			304			1840			672
YEAR	---	---	821									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
OCT , 1982												
09...	157	--	--	--	--	192	--	--	--	--	78	0
NOV												
09...	--	--	<.060	<1	30	--	--	20	--	<1	61	--
JAN , 1983												
21...	--	--	--	--	--	--	--	20	--	--	61	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
OCT , 1982											
09...	--	24	--	--	--	--	--	--	--	--	--
NOV											
09...	--	10	<10	--	--	2	--	--	.2	14	4
JAN , 1983											
21...	--	11	--	--	--	--	--	--	.2	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
OCT , 1982											
09...	--	22	--	--	--	--	--	--	--	--	--
NOV											
09...	--	16	8	<.1	--	<1	--	--	--	--	--
JAN , 1983											
21...	--	15	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT , 1982											
09...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1983											
21...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
OCT , 1982											
09...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1983											
21...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
OCT , 1982											
09...	2.7	--	--	30	--	--	149	--	--	--	--
NOV											
09...	1.2	2	14	16	310	610	110	--	6	--	--
JAN , 1983											
21...	1.2	--	16	16	310	620	110	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
NOV , 1982												
02...	--	20	.120	2	110	--	.9	190	<.01	<1	70	--
MAR , 1983												
01...	--	--	.440	2	--	--	--	190	--	--	64	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
NOV , 1982											
02...	20	15	10	--	K60	1	--	--	.9	22	3
MAR , 1983											
01...	--	16	--	--	--	--	--	--	.9	44	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
NOV , 1982											
02...	23	44	61	<.1	--	6	--	--	--	--	--
MAR , 1983											
01...	--	40	87	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
NOV , 1982 02...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983 01...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	<1
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	9

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
NOV , 1982											
02...	2.7	1	14	120	690	1400	170	--	47	.7	<8.8
MAR , 1983											
01...	7.0	--	13	100	627	1300	150	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
NOV , 1982												
02...	--	10	.090	1	50	--	.8	80	<.01	<1	87	--
MAR , 1983												
01...	--	--	.080	1	--	--	--	80	--	--	83	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
NOV , 1982											
02...	14	6.4	10	--	K210	1	--	--	.3	7	3
MAR , 1983											
01...	--	6.3	--	--	--	--	--	--	.5	4	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
NOV , 1982											
02...	20	72	2	<.1	--	2	--	--	--	--	--
MAR , 1983											
01...	--	70	12	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	1
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	4

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306022 - STEWART GULCH AB WEST FORK NR RIO BLANCO, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
NOV , 1982											
02...	1.5	1	13	130	923	2700	350	--	7	--	<13
MAR , 1983											
01...	2.0	--	15	120	896	2600	340	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
MAR , 1983												
02...	--	--	--	--	--	--	>6.9	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
MAR , 1983 02...	--	--	--	--	K24	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
MAR , 1983 02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306036 - SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
MAR , 1983 02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
MAR , 1983												
02...	--	--	--	--	--	--	>7.3	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
MAR , 1983											
02...	--	--	--	--	K150	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306039 - COTTONWOOD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
MAR , 1983 02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
NOV , 1982												
02...	--	40	.170	1	400	--	1.5	730	<.01	<1	12	--
MAR , 1983												
01...	--	--	.140	1	--	--	--	630	--	--	8.7	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
NOV , 1982											
02...	15	7.7	10	--	<8	24	--	--	24	30	5
MAR , 1983											
01...	--	6.5	--	--	--	--	--	--	16	54	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
NOV , 1982											
02...	40	7.5	<10	<.1	--	3	--	--	--	--	--
MAR , 1983											
01...	--	4.3	4	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	4
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	4

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
NOV , 1982											
02...	1.6	<1	15	570	1380	1100	22	--	10	.6	<21
MAR , 1983											
01...	2.3	--	11	430	1080	720	21	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
MAR , 1983												
02...	--	--	--	--	--	--	>7.3	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
MAR , 1983											
02...	--	--	--	--	K38	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83

09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. — DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
NOV , 1982												
02...	--	--	--	--	--	--	.4	--	--	--	--	--
03...	--	10	.090	1	67	--	.4	110	<.01	<1	92	--
MAR , 1983												
03...	--	--	.180	1	--	--	--	90	--	--	80	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
NOV , 1982											
02...	--	--	--	--	K96	--	--	--	--	--	--
03...	14	11	<10	--	K96	1	--	--	.4	7	1
MAR , 1983											
03...	--	10	--	--	--	--	--	--	.4	37	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	25	74	3	<.1	--	4	--	--	--	--	--
MAR , 1983											
03...	--	58	12	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983											
03...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	<1
MAR , 1983											
03...	--	--	--	--	--	--	--	--	--	--	5

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
NOV , 1982											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	1.9	1	15	120	919	3100	330	--	44	--	<12
MAR , 1983											
03...	4.0	--	13	93	743	2400	250	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
NOV , 1982												
03...	--	10	<.060	2	110	--	.5	200	<.01	<1	69	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
NOV , 1982											
03...	13	17	<10	--	K32	2	--	--	1.6	12	1

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
NOV , 1982											
03...	26	56	53	<.1	--	7	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
NOV , 1982											
03...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
NOV , 1982											
03...	--	--	--	--	--	--	--	--	--	--	<1

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306061 - PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
NOV , 1982											
03...	2.3	1	15	150	842	1900	240	--	5	--	<13

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
DEC , 1982												
16...	--	--	<.060	--	--	--	--	190	--	--	74	--
MAR , 1983												
02...	--	--	.400	--	--	--	--	100	--	--	47	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
DEC , 1982											
16...	--	14	--	--	--	--	--	--	1.2	--	--
MAR , 1983											
02...	--	11	--	--	--	--	--	--	.6	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
DEC , 1982											
16...	--	70	--	--	--	--	--	--	--	--	--
MAR , 1983											
02...	--	34	--	--	--	--	1.0	.07	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
DEC , 1982 16...	--	.06	--	--	--	--	--	--	--	--	--
MAR , 1983 02...	--	.28	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
DEC , 1982											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983											
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 06/13/83
09306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
DEC , 1982											
16...	2.1	--	16	160	956	2700	310	--	--	--	--
MAR , 1983											
02...	5.8	--	12	78	496	1400	140	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306222 - PICEANCE CREEK AT WHITE RIVER, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BICARBONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BORON, DISSOLVED (UG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CARBONATE FET-FLD (MG/L AS CO3) (00445)
DEC , 1982												
16...	--	--	.150	--	--	--	--	240	--	--	67	--
MAR , 1983												
01...	--	--	.350	--	--	--	--	150	--	--	45	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306222 - PICEANCE CREEK AT WHITE RIVER, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DISSOLVED (UG/L AS CU) (01040)	CYANIDE DISSOLVED (MG/L AS CN) (00723)	STREPTOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
DEC , 1982											
16...	--	28	--	--	--	--	--	--	1.5	--	--
MAR , 1983											
01...	--	26	--	--	--	--	--	--	.8	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306222 - PICEANCE CREEK AT WHITE RIVER, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS-SOLVED (MG/L AS C) (00682)	CARBON, INOR-GANIC, DIS-SOLVED (MG/L AS C) (00691)
DEC , 1982											
16...	--	71	--	--	--	--	--	--	--	--	--
MAR , 1983											
01...	--	34	--	--	--	--	1.6	.07	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306222 - PICEANCE CREEK AT WHITE RIVER, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOXAPHENE, TOTAL (UG/L) (39400)
DEC , 1982											
16...	--	.09	--	--	--	--	--	--	--	--	--
MAR , 1983											
01...	--	.34	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306222 - PICEANCE CREEK AT WHITE RIVER, CO

PROCESS DATE 06/13/83
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
DEC , 1982											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1983											
01...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY — PROCESS DATE 06/13/83
09306222 - PICEANCE CREEK AT WHITE RIVER, CO — DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SULFIDE DISSOLVED (MG/L AS S) (00746)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
DEC , 1982											
16...	2.2	--	16	260	1160	2500	330	--	--	--	--
MAR , 1983											
01...	5.1	--	12	170	702	1200	160	--	--	--	--

TABLE 1.2.2.1-3

Remark Codes for USGS
Water Quality Data

CHARACTER	REMARK
E	Estimated Value
<	Actual value is known to be less than value shown
>	Actual value is known to be greater than value shown
M	Presence of material verified but not quantified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected
K	Results based on colony count outside the acceptable range (non-ideal colony count)

1.2.2.2 Spring and Seeps

Locations of springs and seeps on and around the C-b Tract are shown in Figure 1.2.1.2-1 of Section 1.2.1.2.

Water quality samples were not taken during this report period (January through May 1983).

During this report period water samples of pH or conductivity remained between the 20% range for these baseline values. If a sample should be have been taken, parameters were to be analyzed as followed by the DMP quarterly schedule, Table 1.2.2.2-1.

TABLE 1.2.2.2-1

Parameters Analyzed During IMP - Springs

Ag	Mo	Ca	TDS
AS	Cl	Mg	SO_4
Ba	Li	Fluoride	CO_3
Cd	Al	B	HCO_3
Cr	Sr	Ni	NO_3
Cu	Se	Oil & Grease	Alkalinity
Fe	Zn	Temperature	Hardness
Hg	pH	Kjeldahl-N	Phenols
Mn	Na	COD	Ammonia
Pb	K	BOD	DOC Fraction

Time series plots of temperature, pH and specific conductance are displayed in this section. Dashed lines on the pH and specific conductance plots represent the baseline mean. These plots can be referenced with Table 1.2.2.2-2.

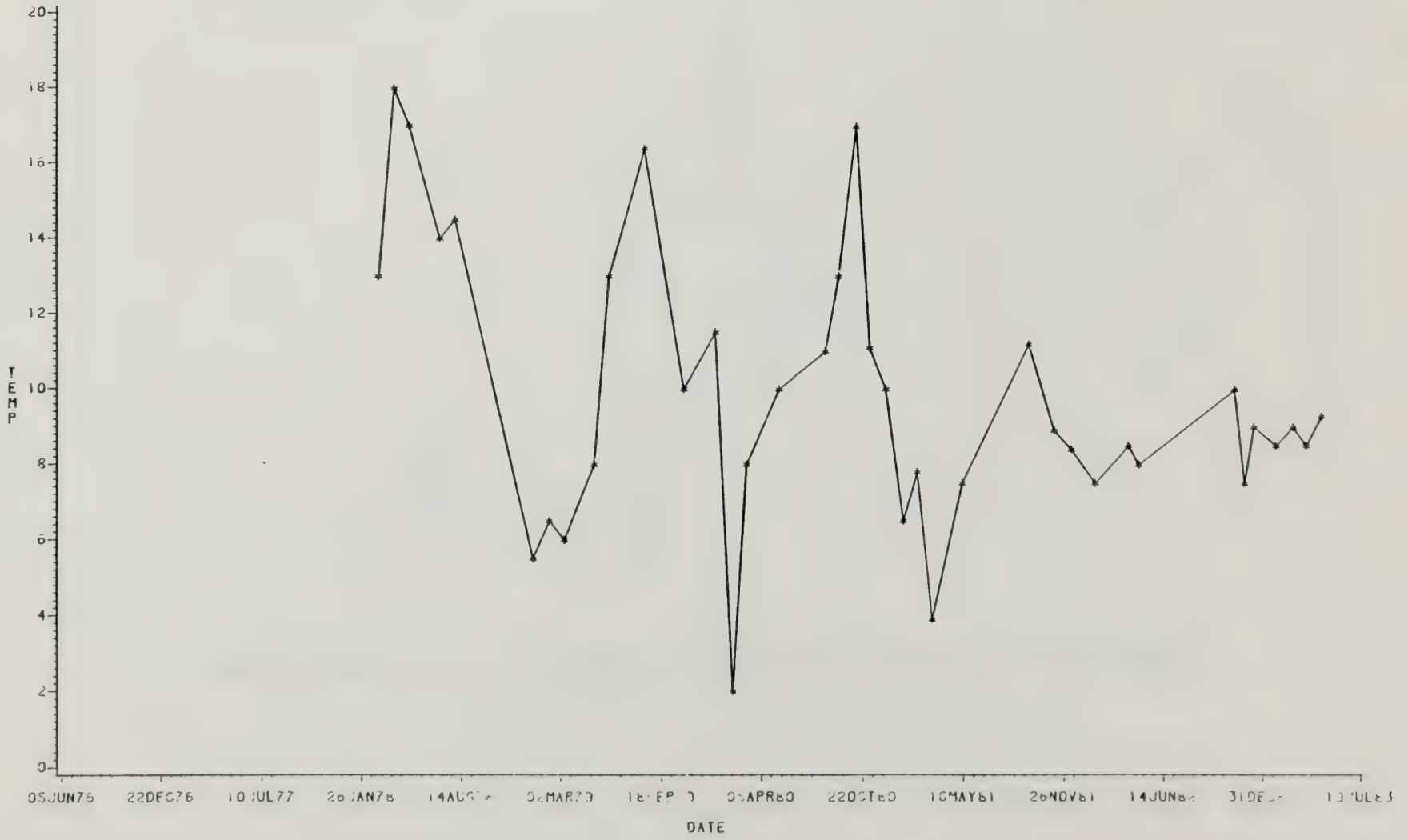
TABLE 1.2.2.2-2

Parameter List of Springs and Seeps
Time Series Plots

Station Code		Temperature	pH	Specific Conductance
S-1	WS01	I-385	I-396	I-407
S-2	WS02	I-386	I-397	I-408
S-4	WS04	I-387	I-398	I-409
S-6	WS06	I-388	I-399	I-410
S-7	WS07	I-389	I-400	I-411
S-8	WS08	I-390	I-401	I-412
S-9	WS09	I-391	I-402	I-413
S-10	WS10	I-392	I-403	I-414
SEEPA	WS11	I-393	I-404	I-415
S-102	WS12	I-394	I-405	I-416
S-11	WS36	I-395	I-406	I-417

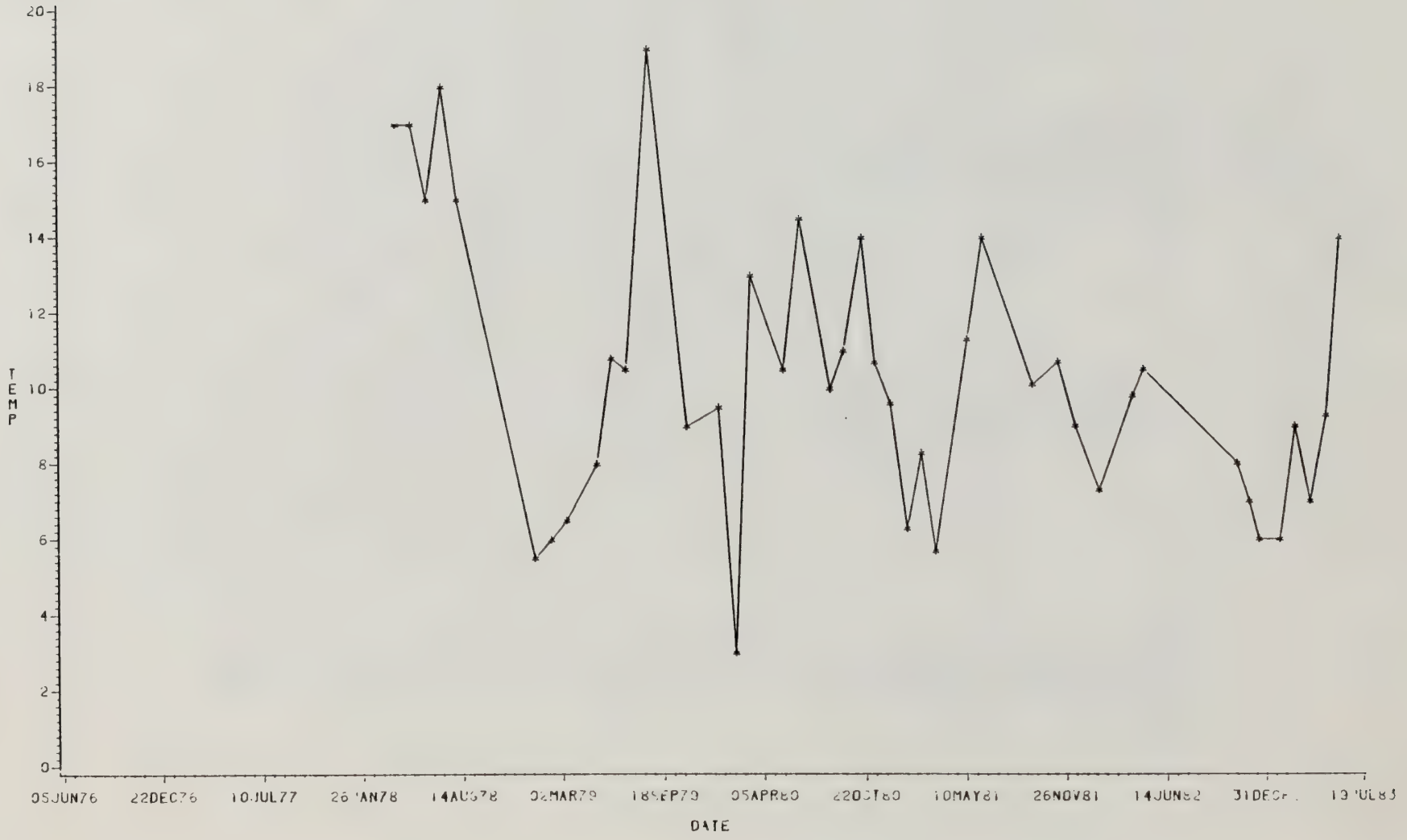
TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

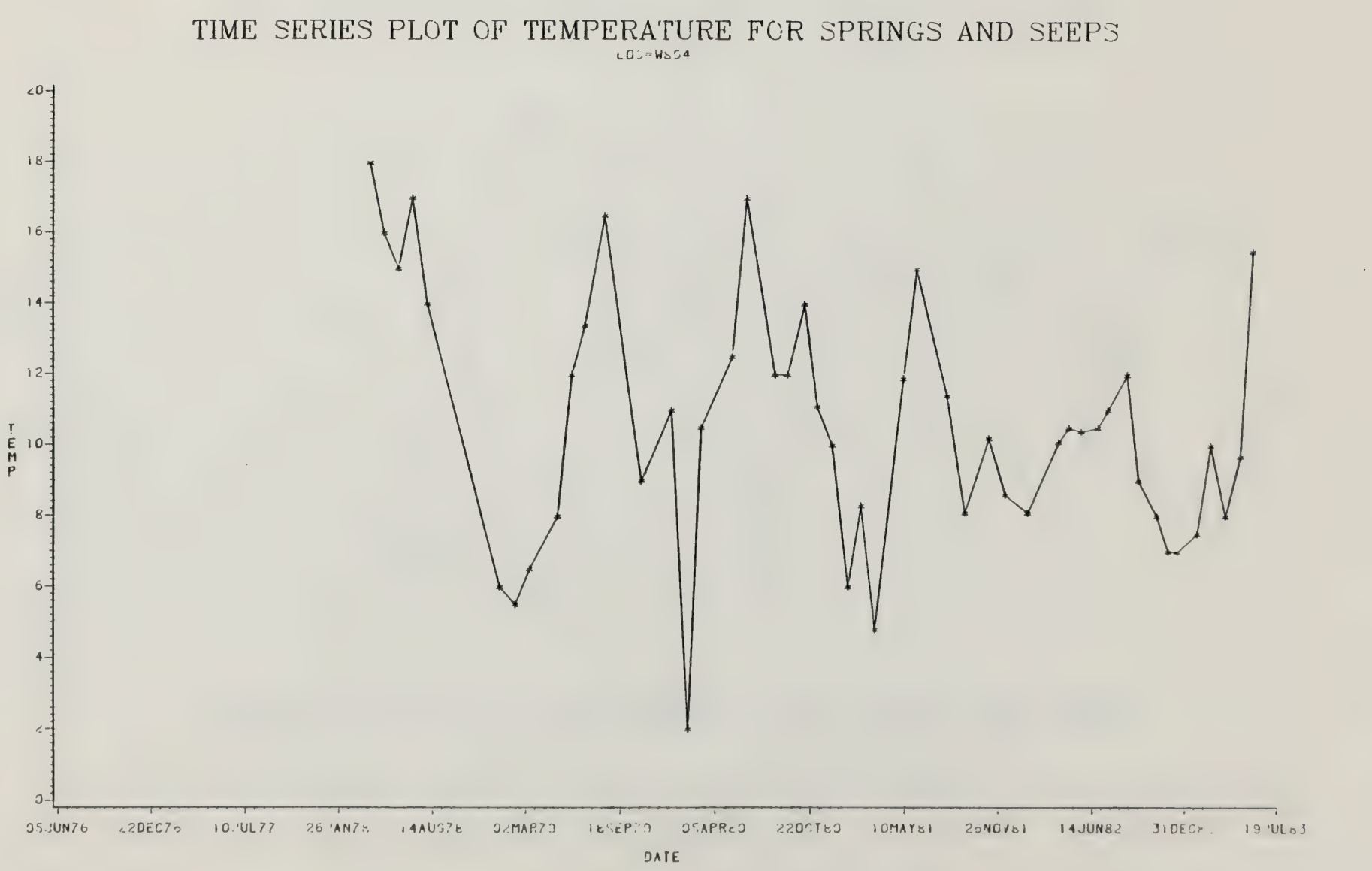
LOC=WS01



TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

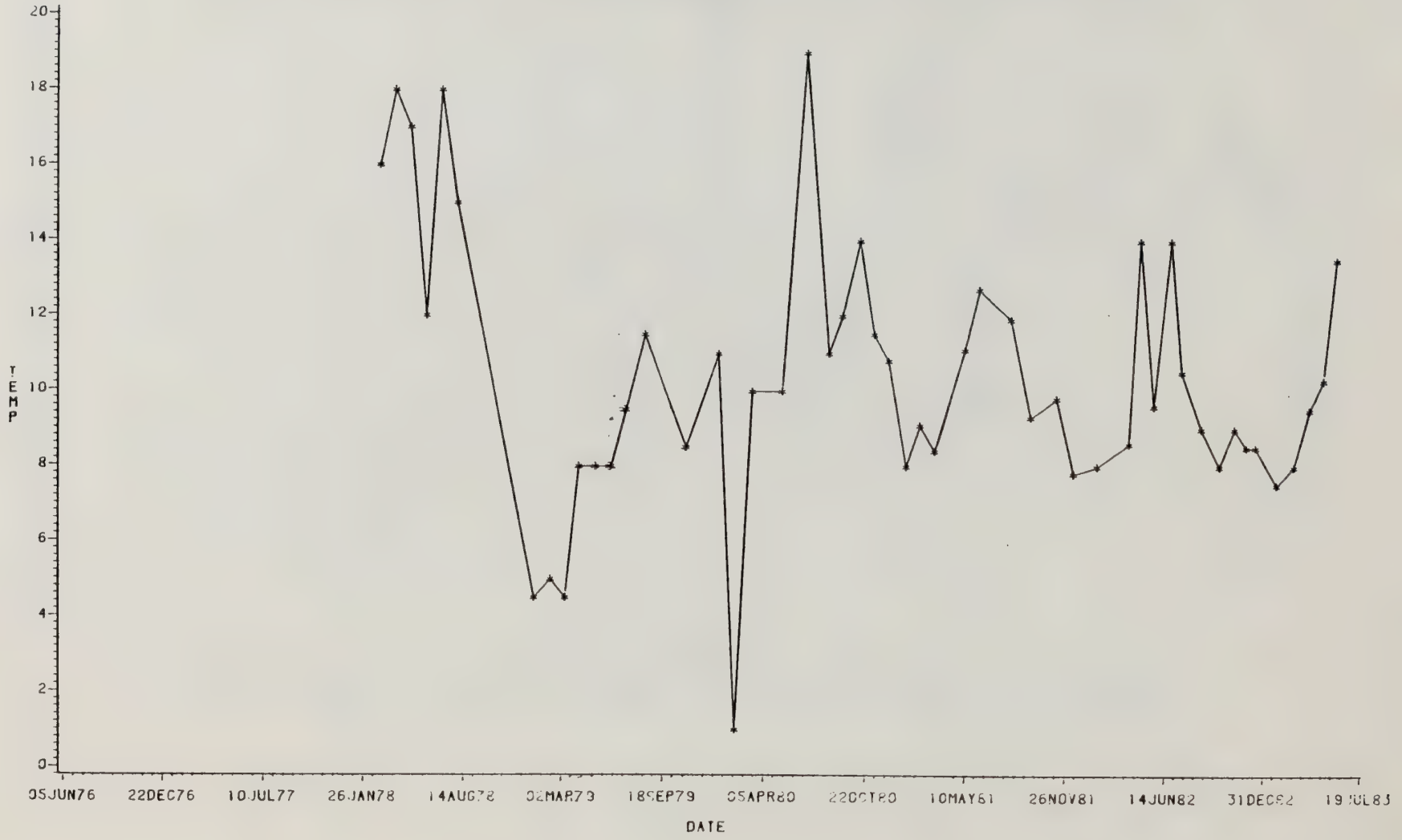
LOC=WS02




TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS
LOC=WS04
TEMP
DATE
0
4
6
8
10
12
14
16
18
20
05JUN76
22DEC76
10JUL77
26JAN78
14AUG78
02MAR79
18SEP79
05APR80
22OCT80
10MAY81
26NOV81
14JUN82
31DEC
19JUL83

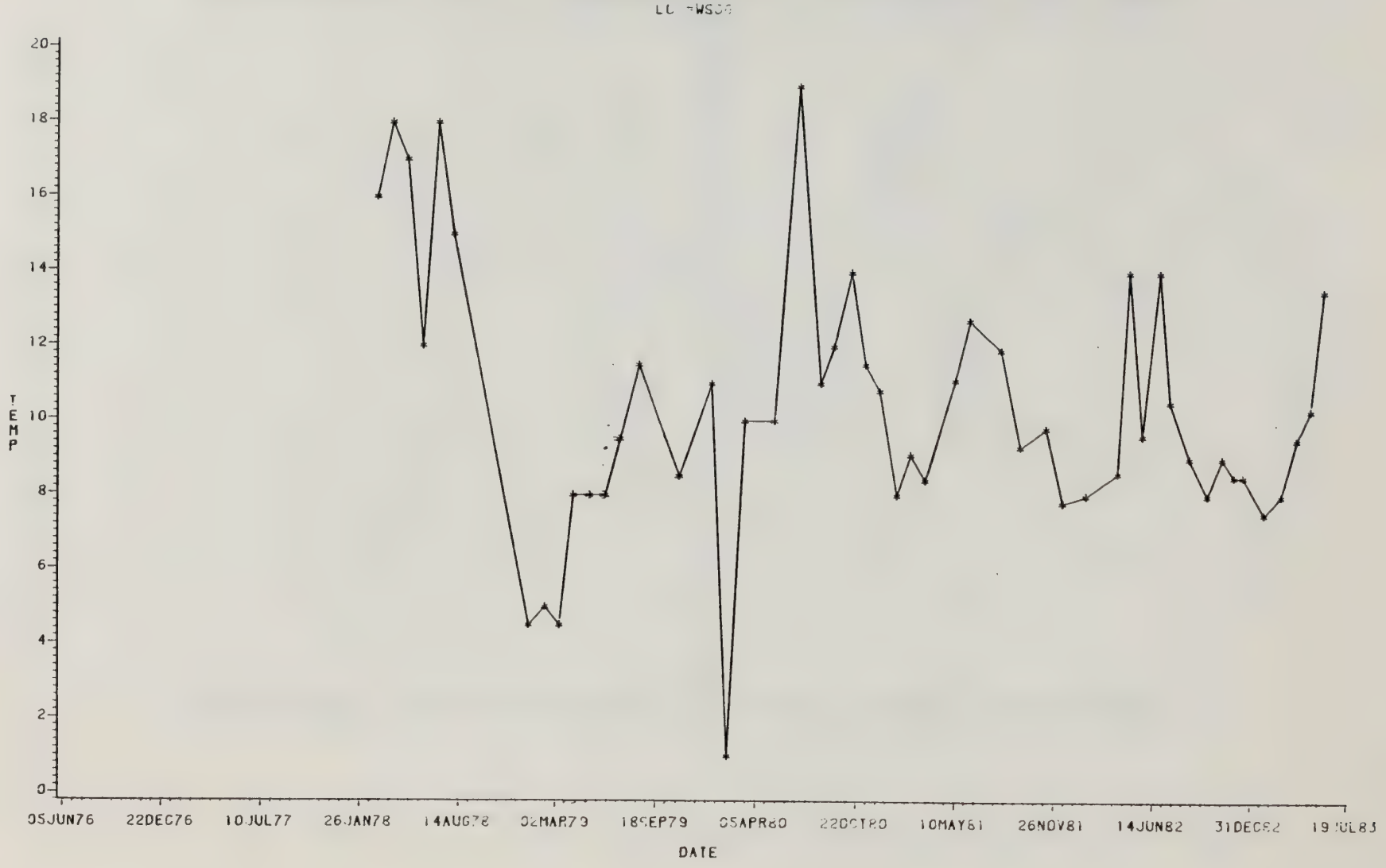
TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

LL -WS36

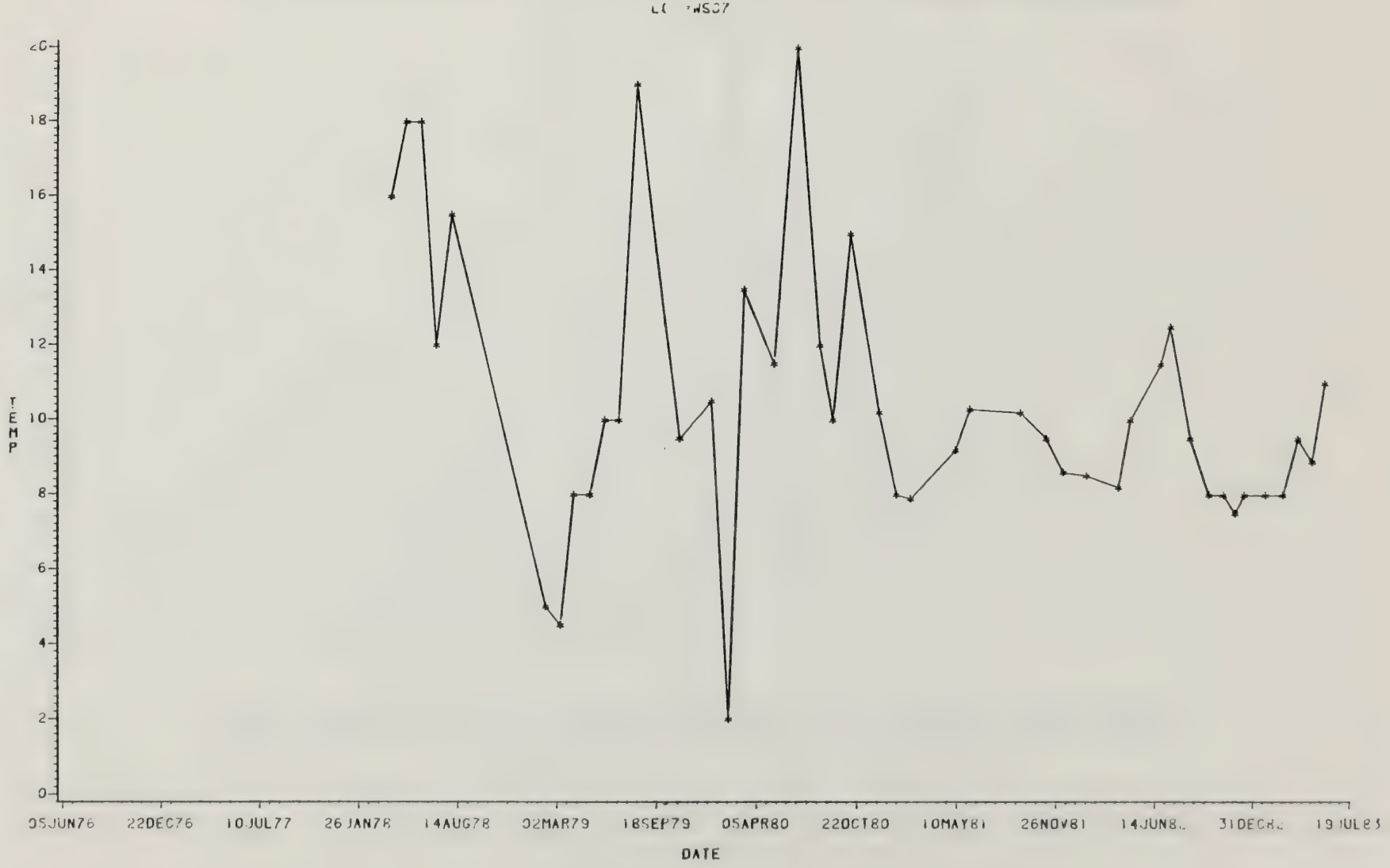


TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

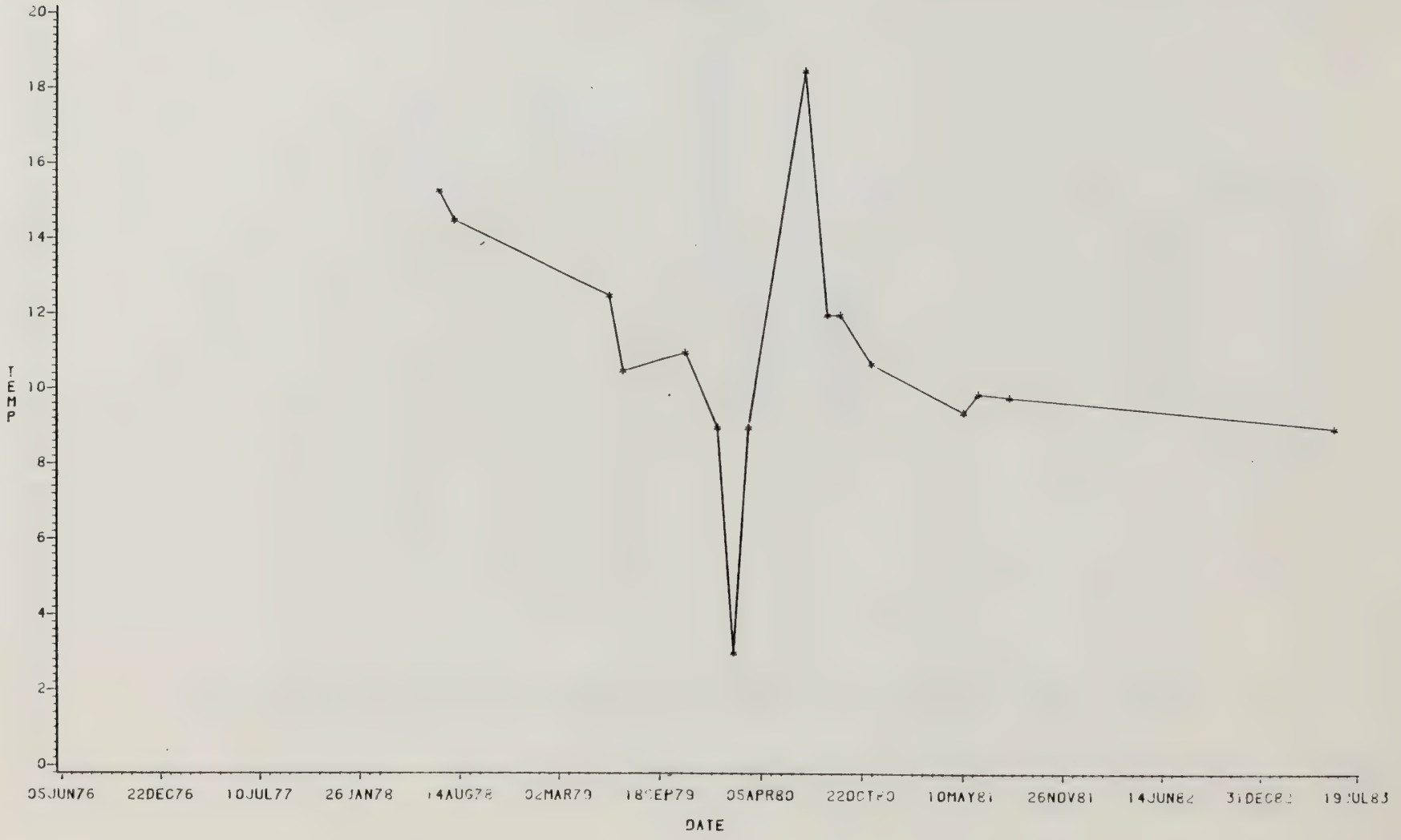


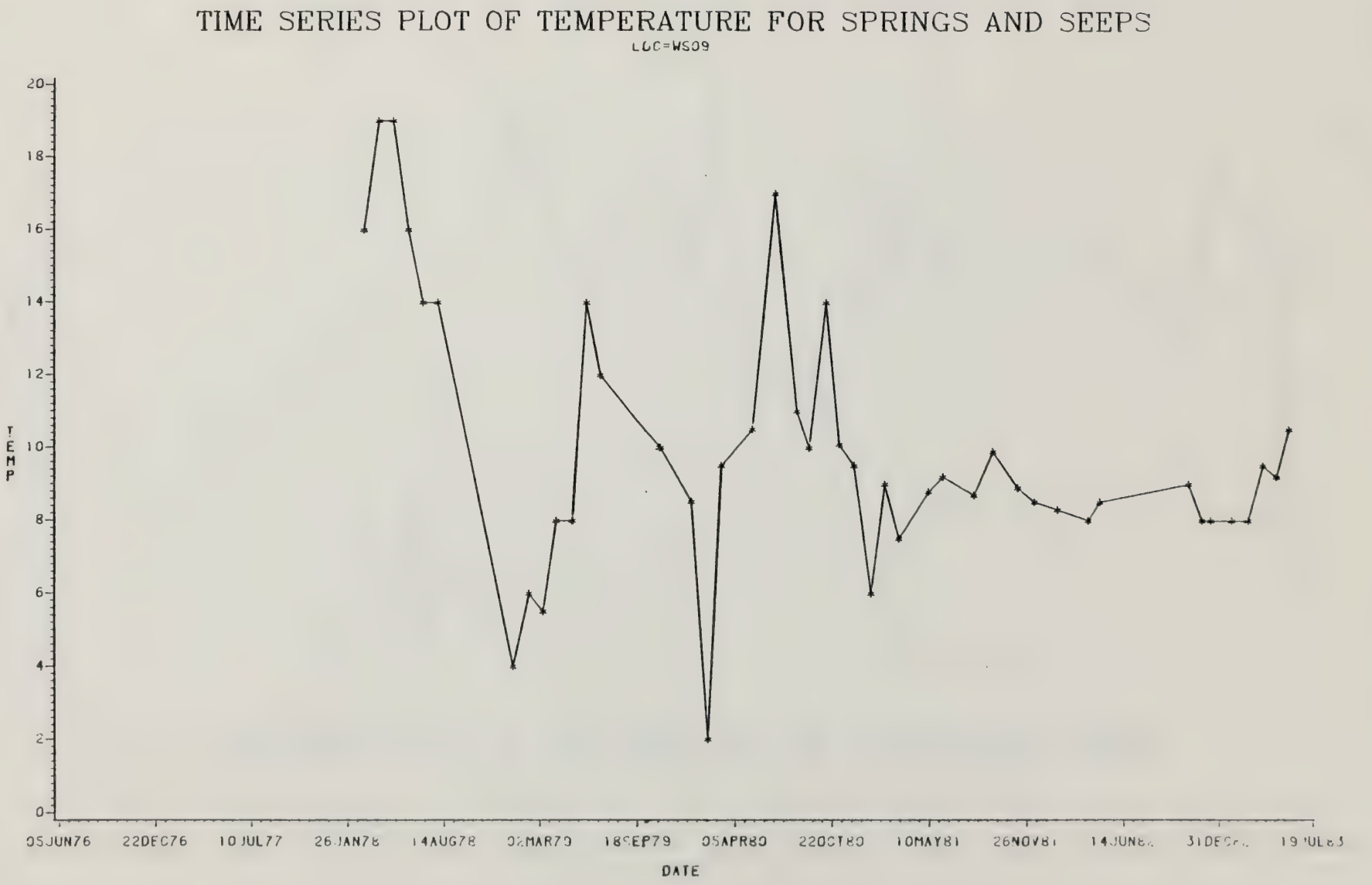
TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS



TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

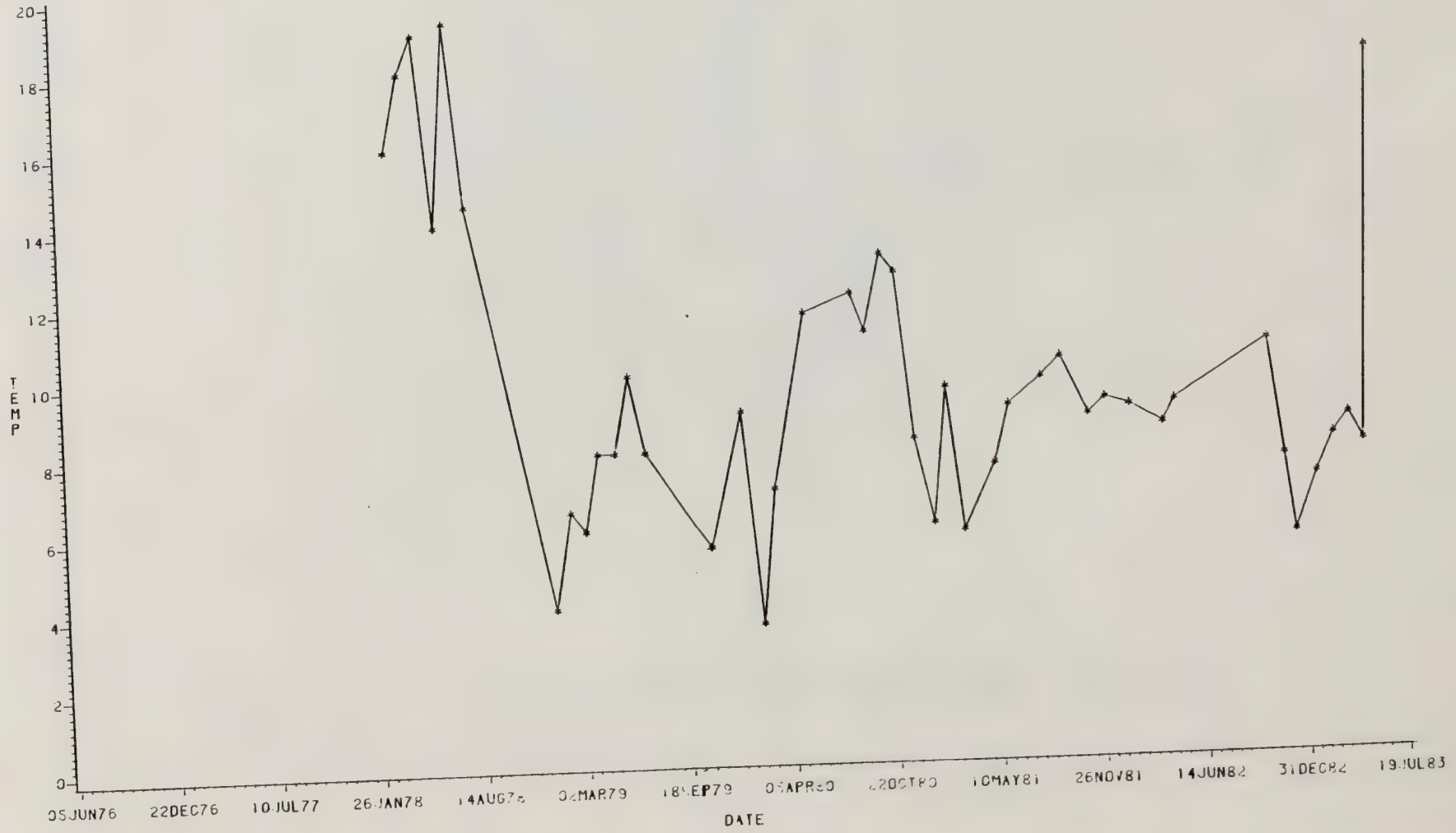
LOC=WS08

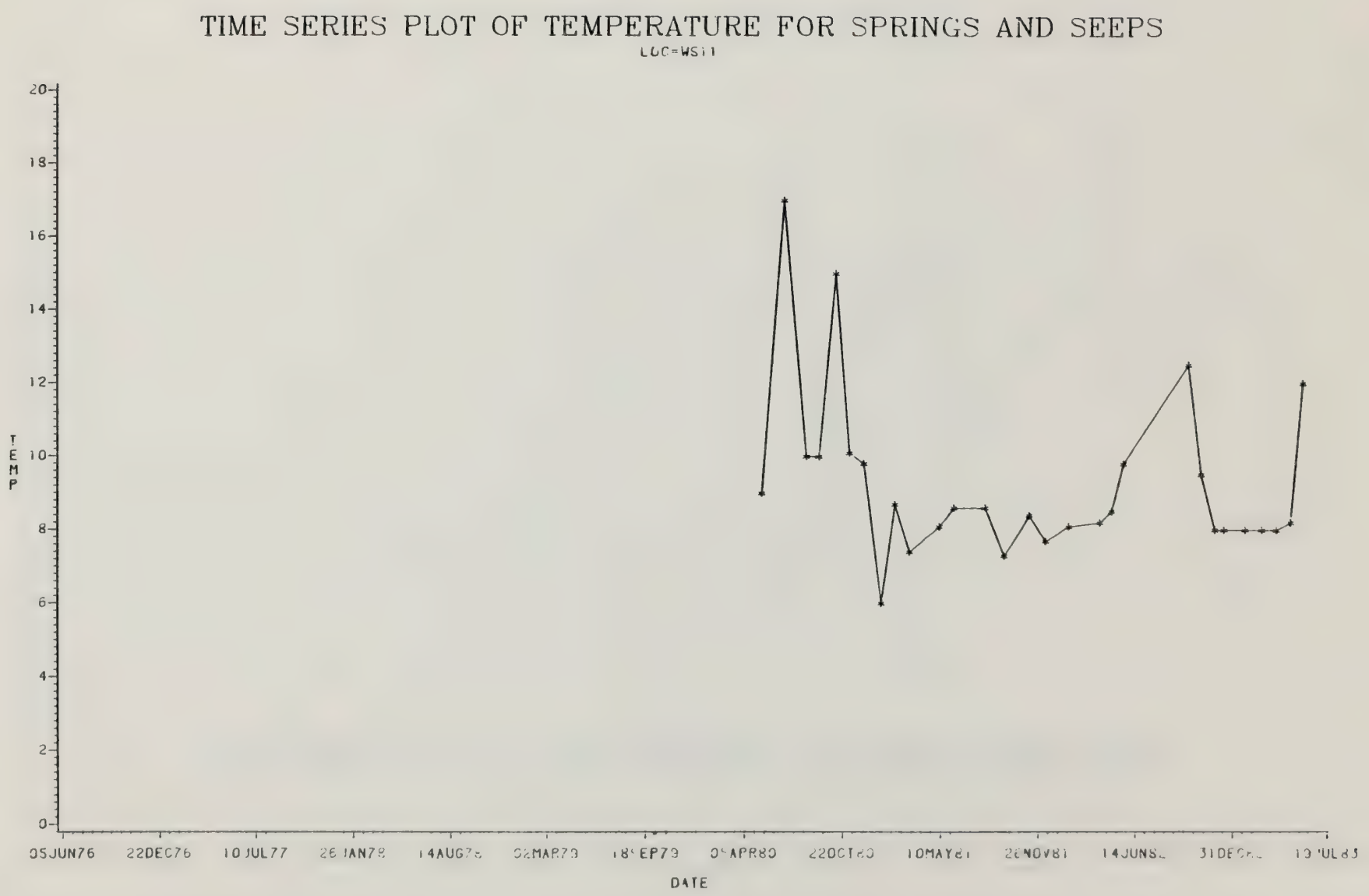



TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS
LOC=WS09
TEMP
20
18
16
14
12
10
8
6
4
2
0
05JUN76
22DEC76
10JUL77
26JAN78
14AUG78
02MAR79
18SEP79
05APR80
22OCT80
10MAY81
26NOV81
DATE

TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

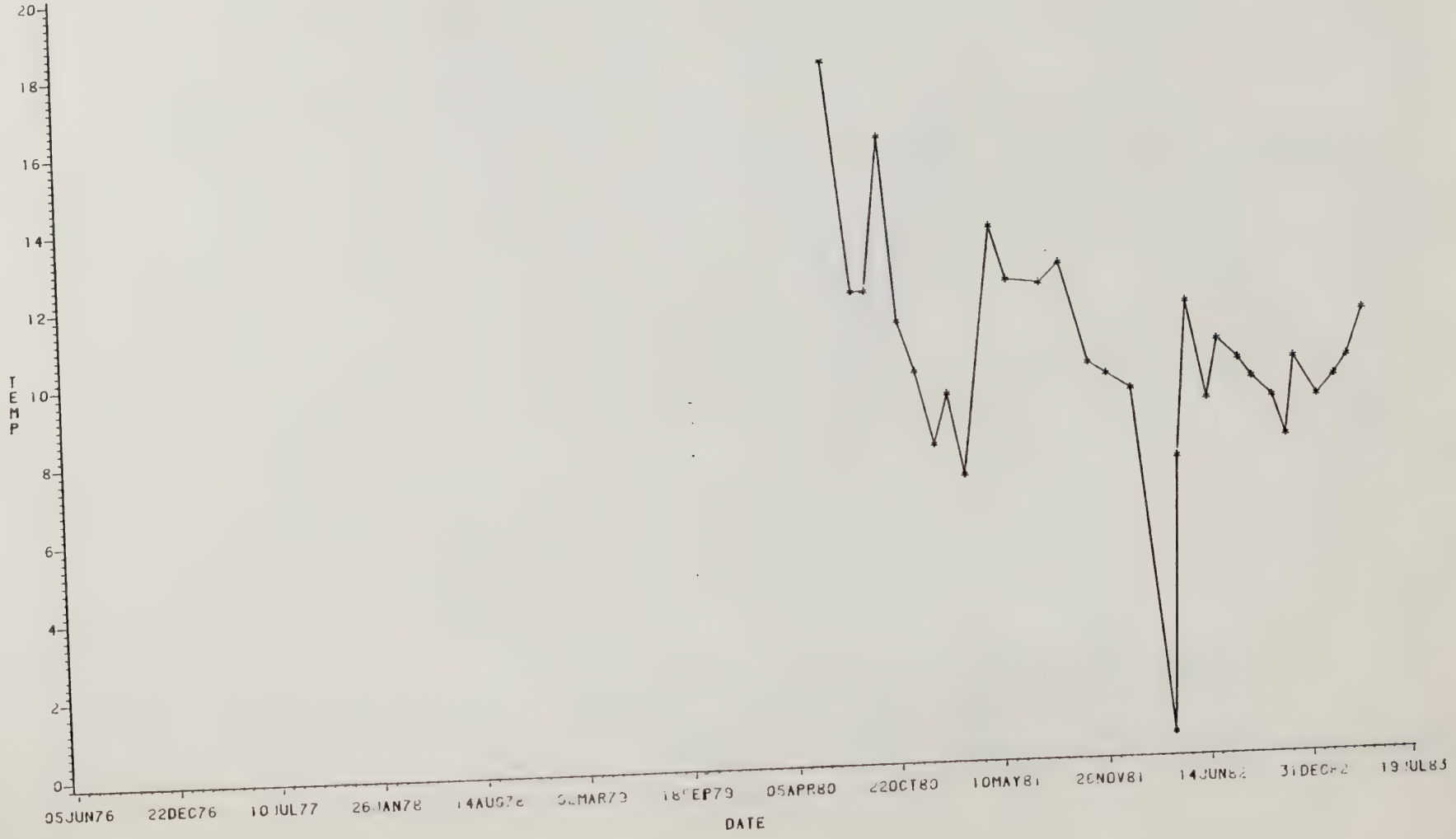
LOC=WS10




TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS
LOC=WS11
TEMP
20
18
16
14
12
10
8
6
4
2
0
05JUN76
22DEC76
10JUL77
DATE

TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

LOC=WSI2

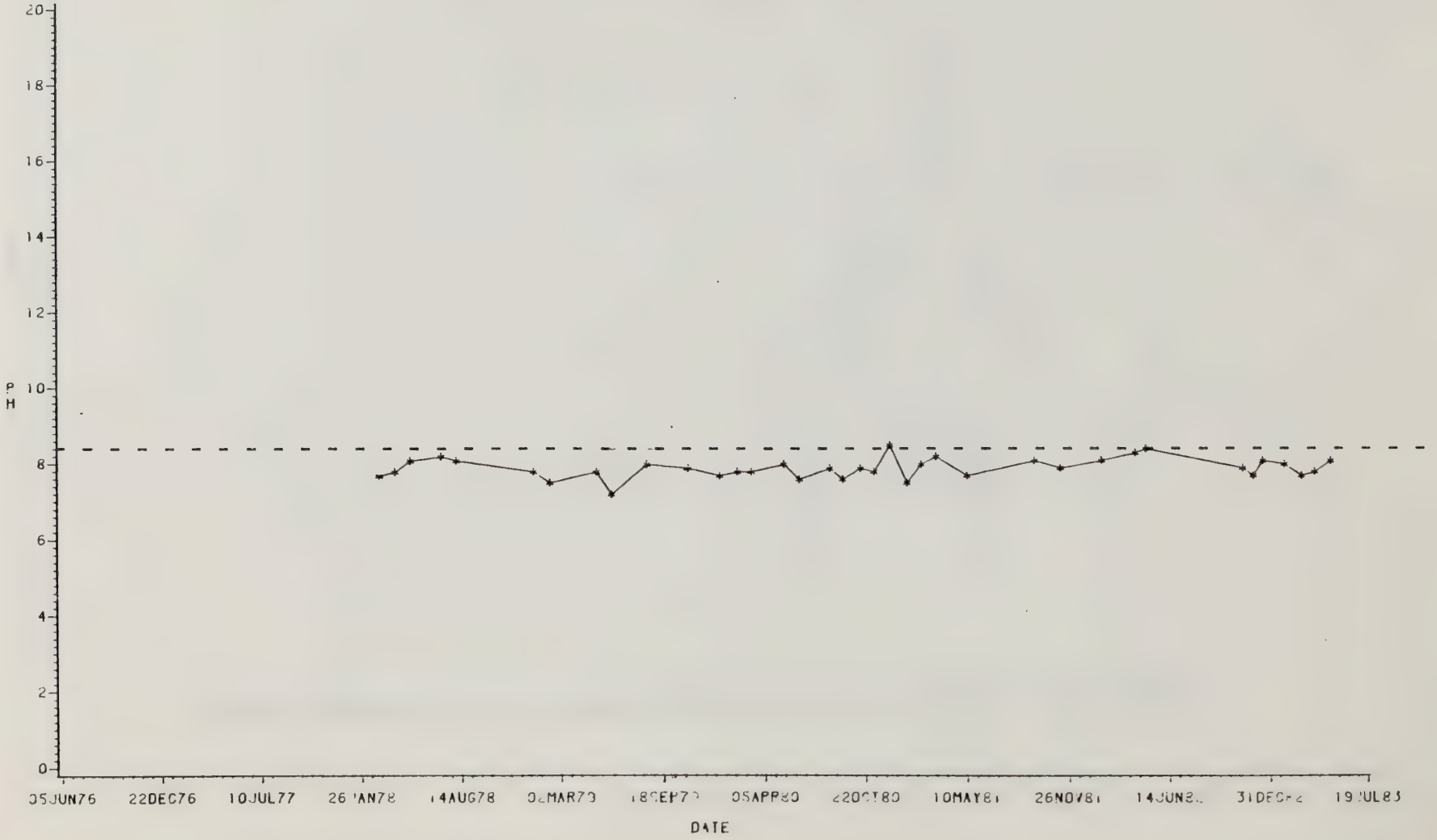


TIME SERIES PLOT OF TEMPERATURE FOR SPRINGS AND SEEPS

LOC=WS3C

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

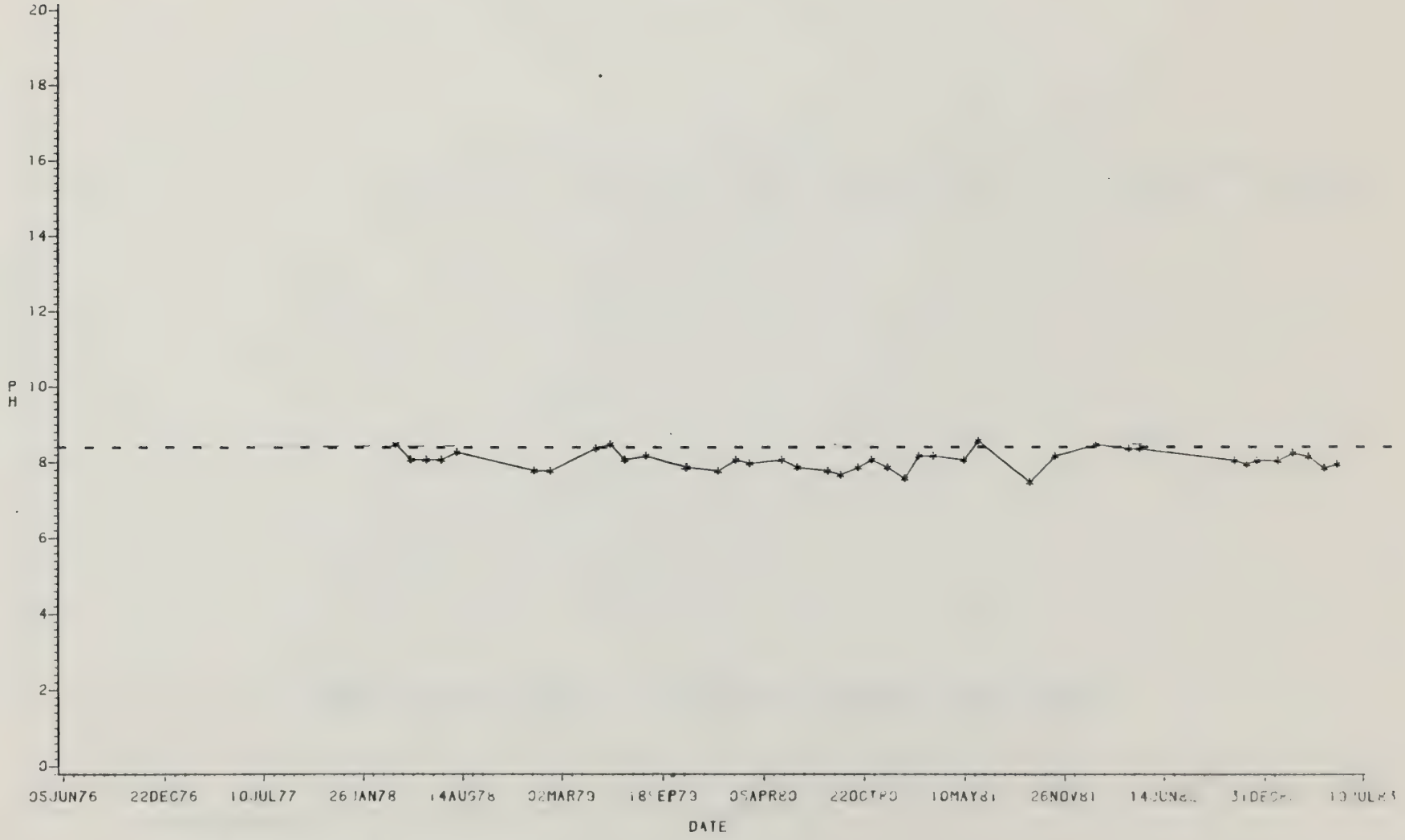
LOC=WSO1



- - - (Mean Baseline 8.2 pH units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

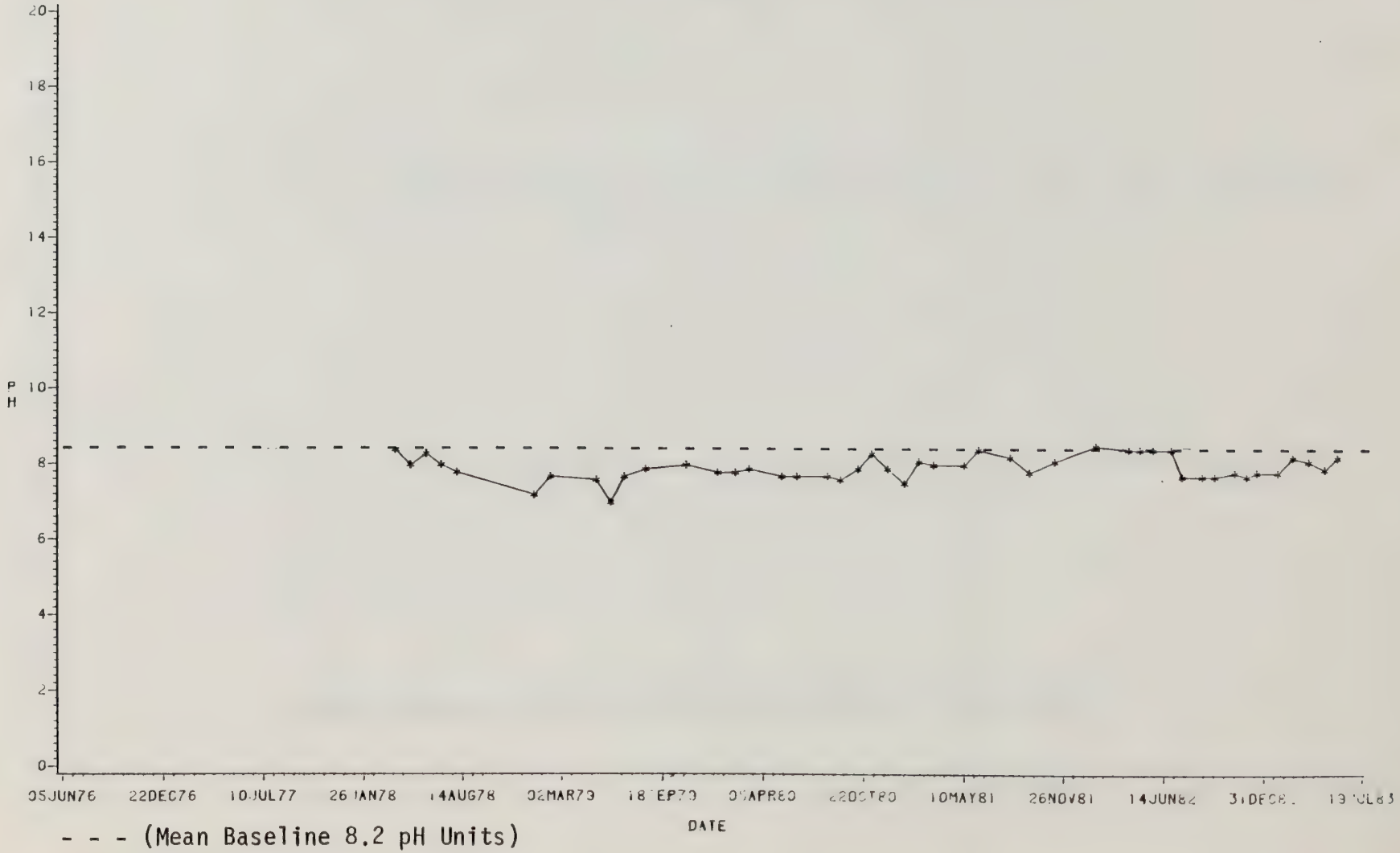
LOC=WS02



- - - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

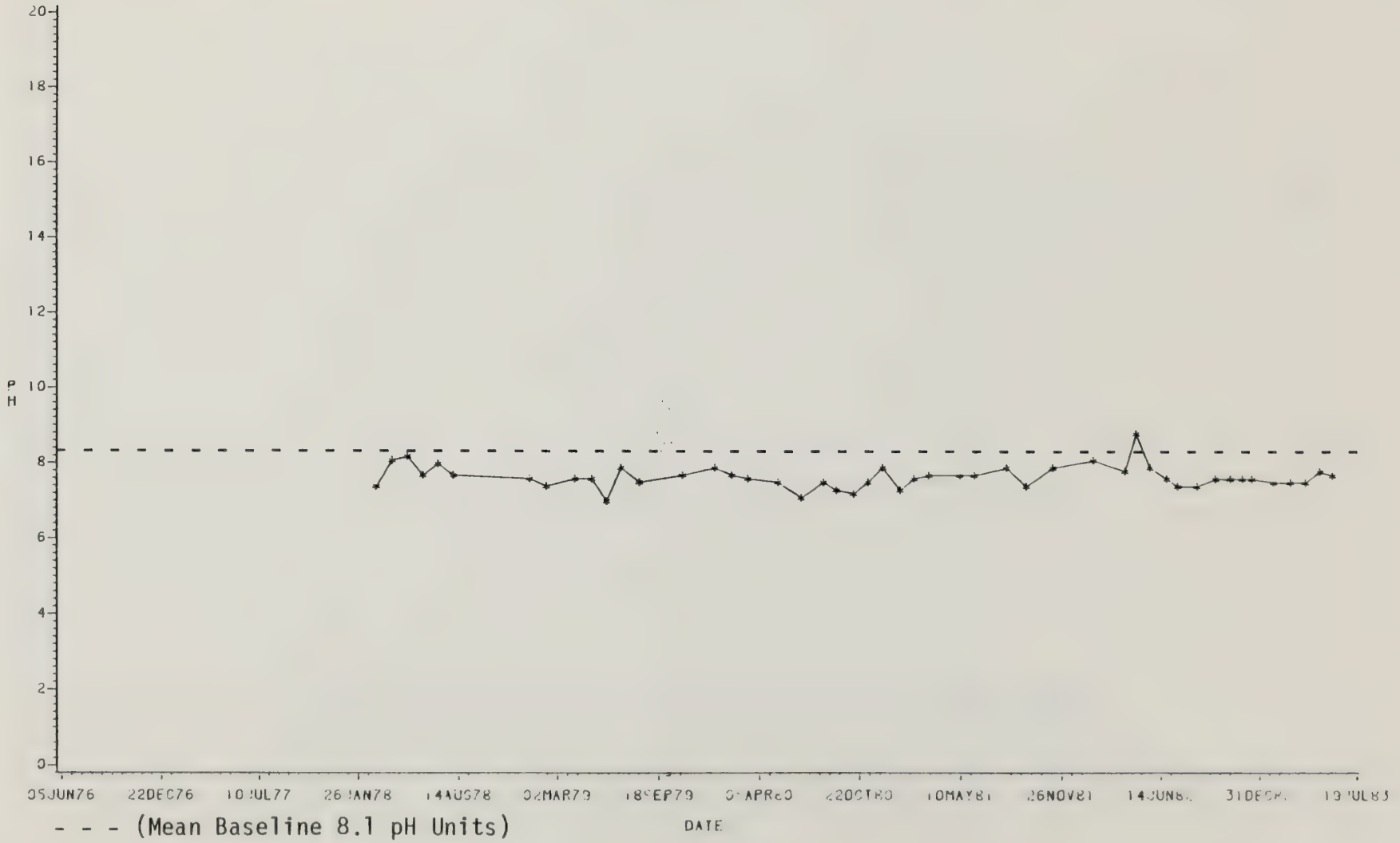
LOC=WS04



- - - (Mean Baseline 8.2 pH Units)

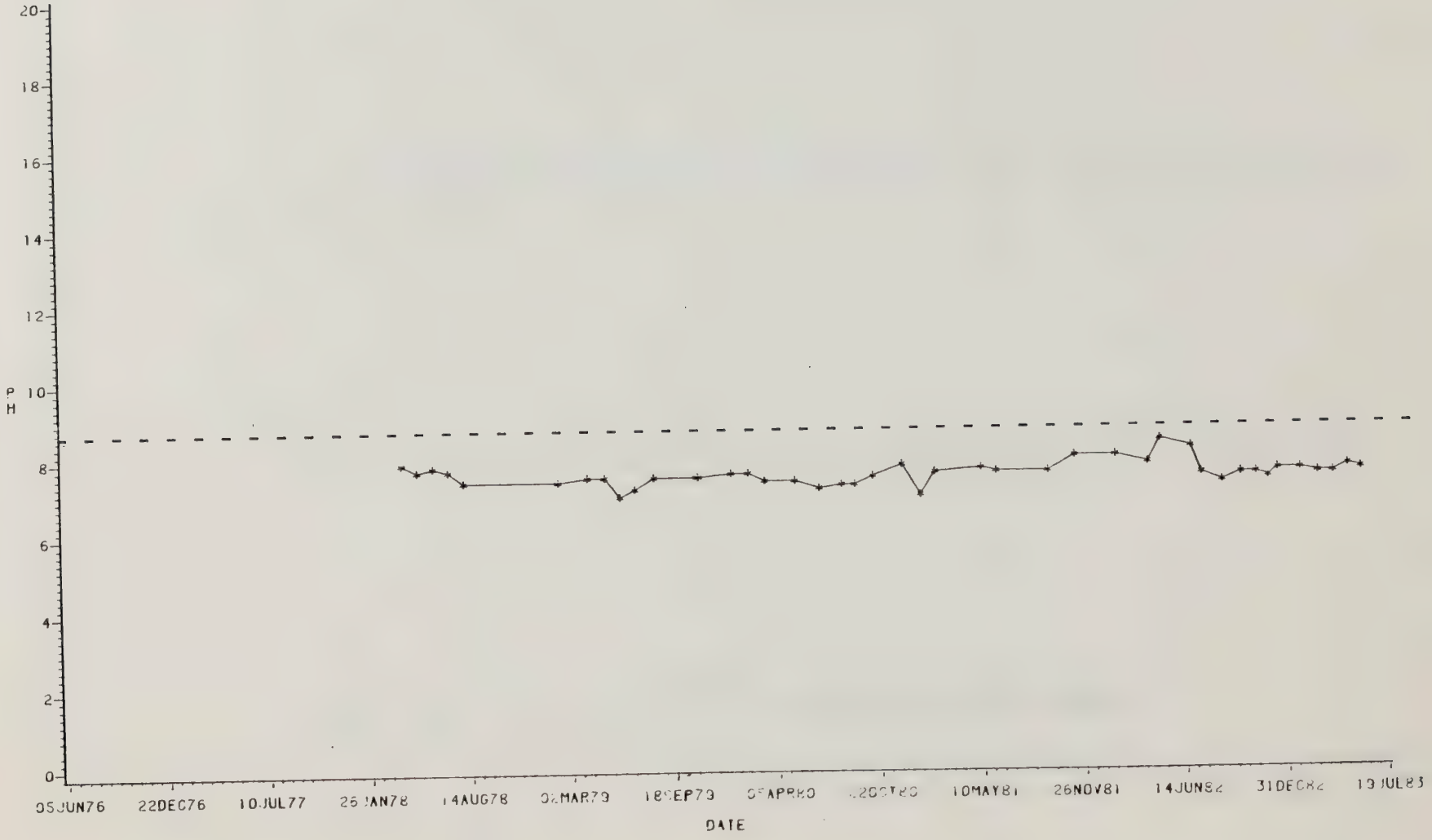
TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

LOC=WSOC



TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

LOC=WS07



- - - (Mean Baseline 8.3 pH Units)

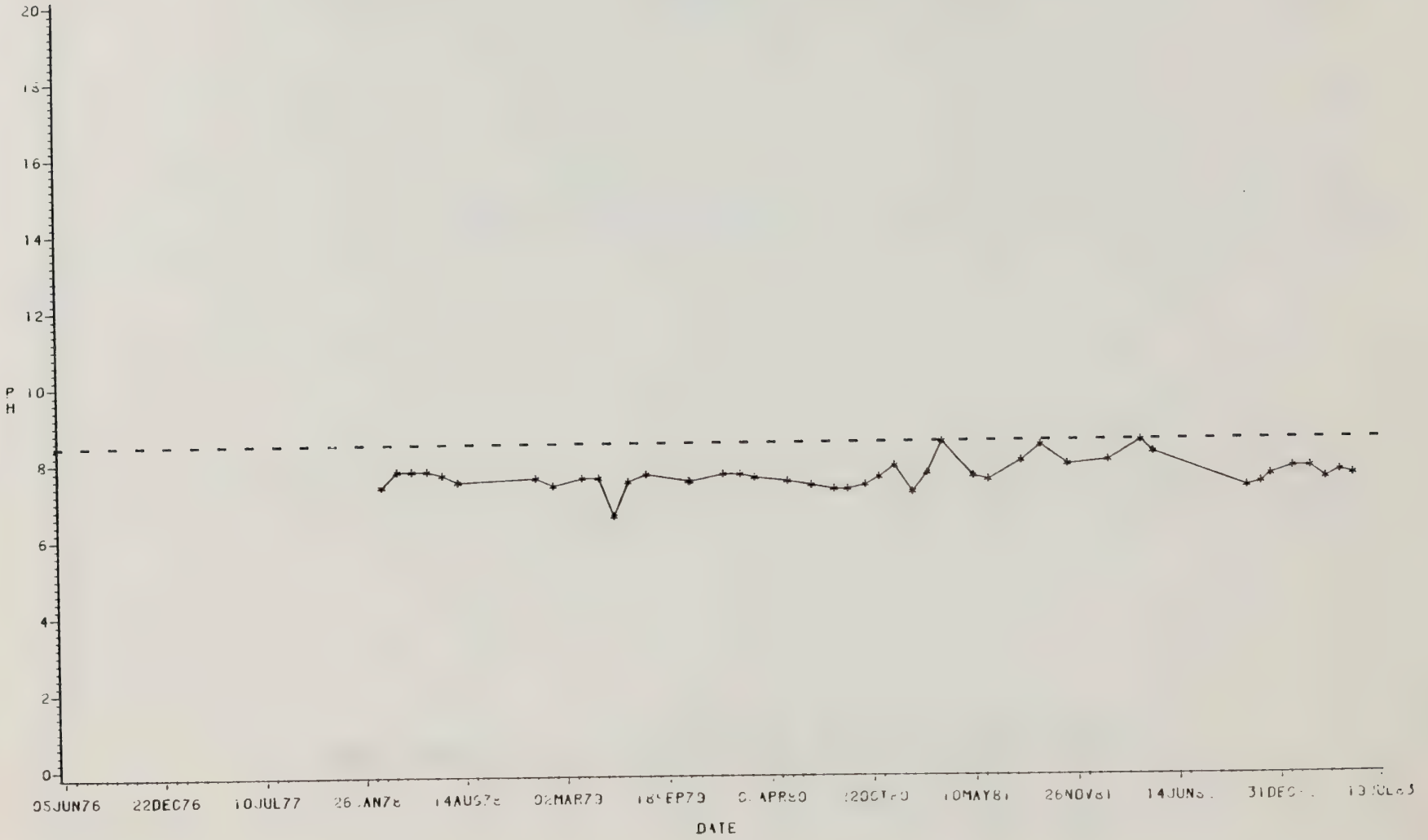
TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

LOC-WSOR

- - - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

LOC=WS08



- - - (Mean Baseline 8.2 pH Units)

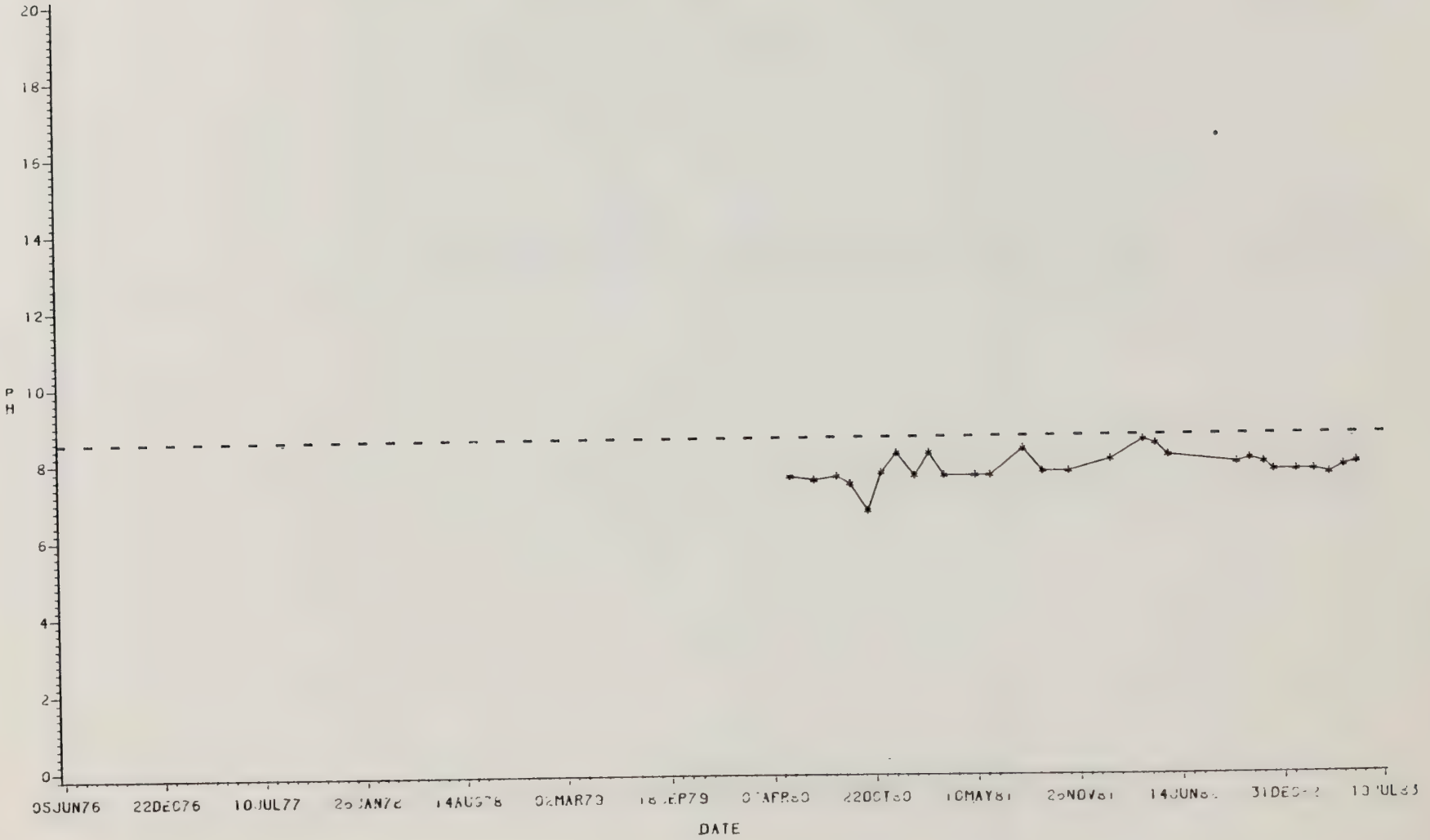
TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

LOC=WS10

-·- - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

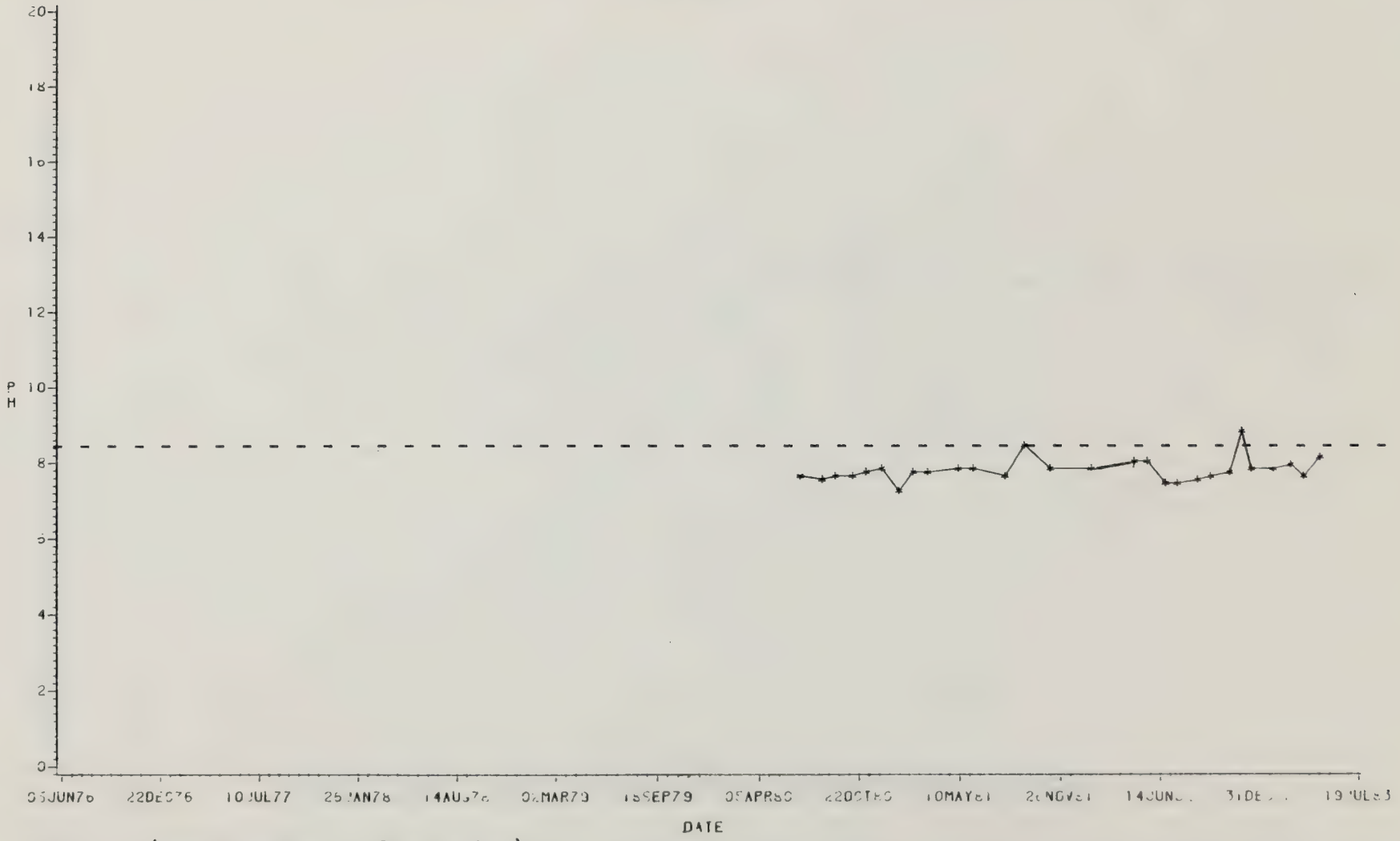
LOC=WS11



- - - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

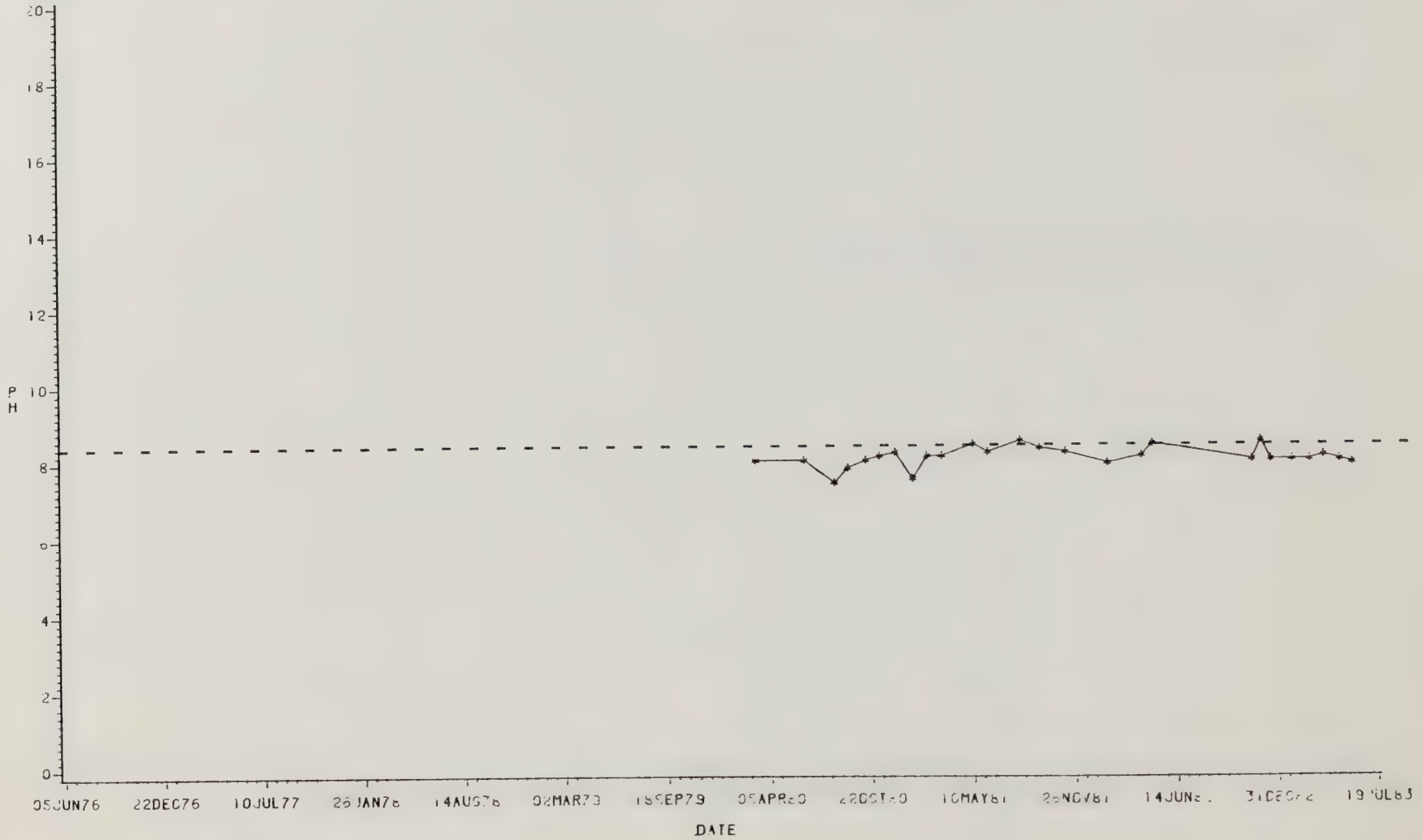
LOC=WS12



- - - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF PH FOR SPRINGS AND SEEPS

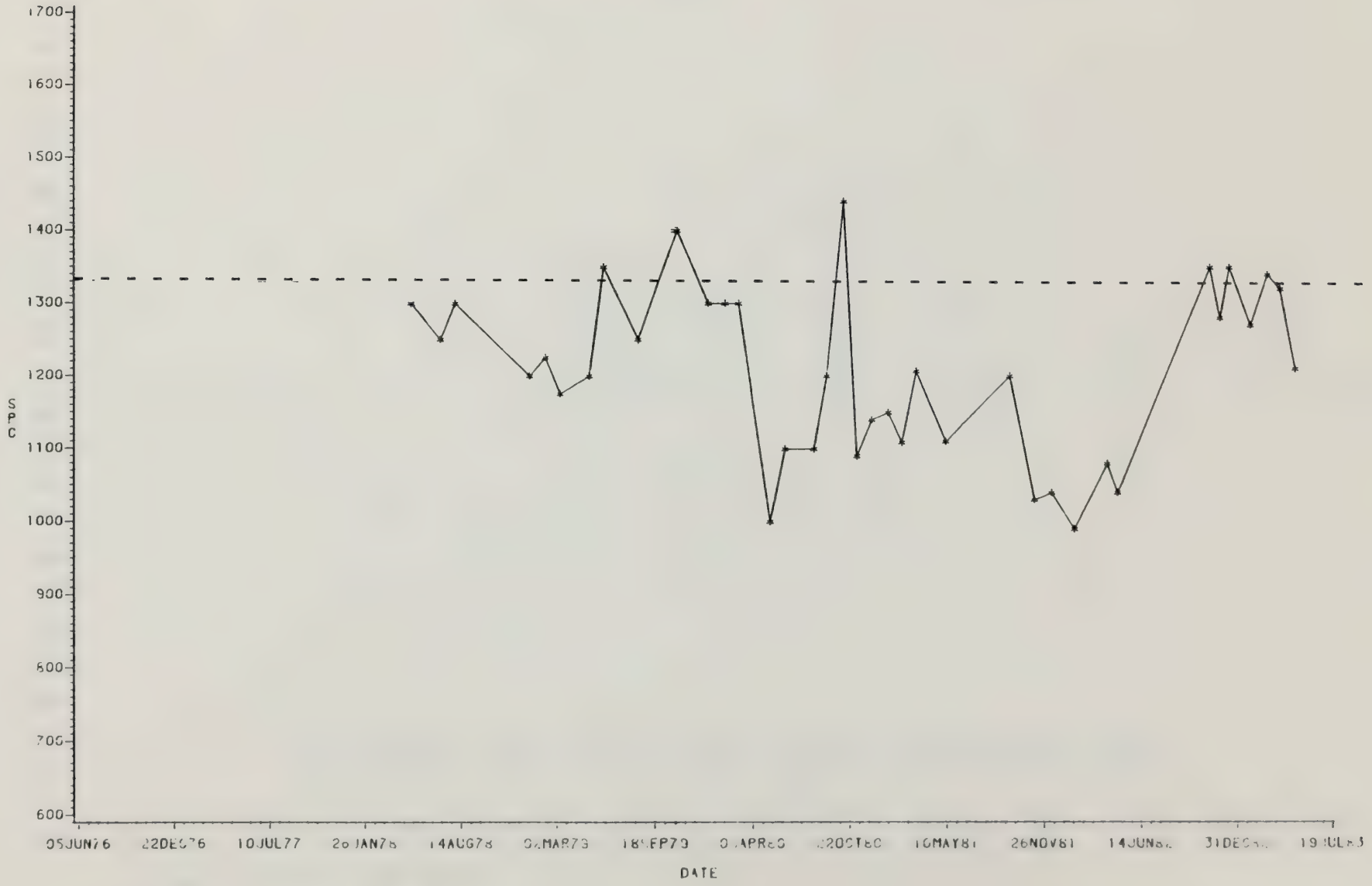
LOC=WS36



- - - (Mean Baseline 8.2 pH Units)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

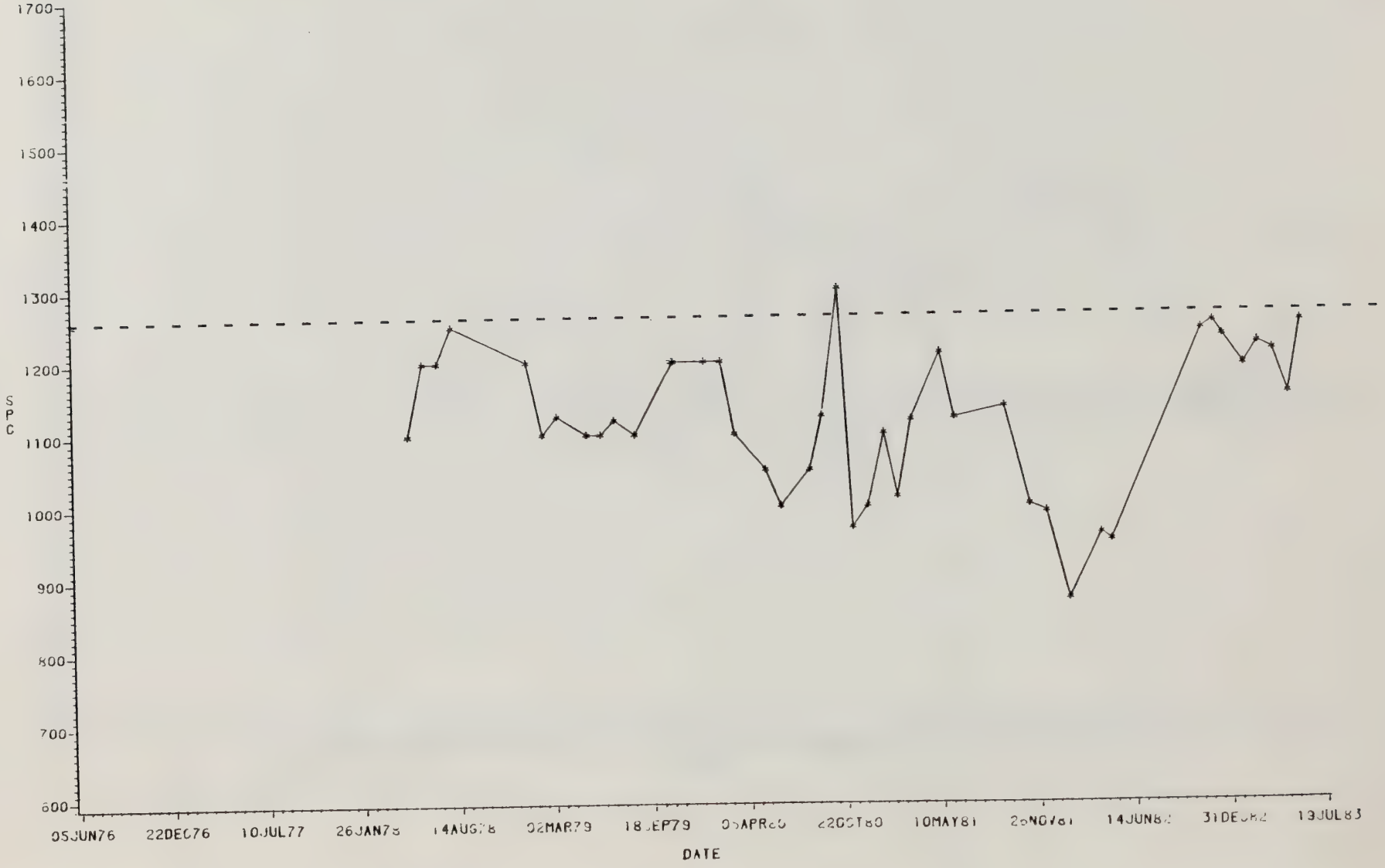
LOC=WSG1



- - - (Mean Baseline 1330 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

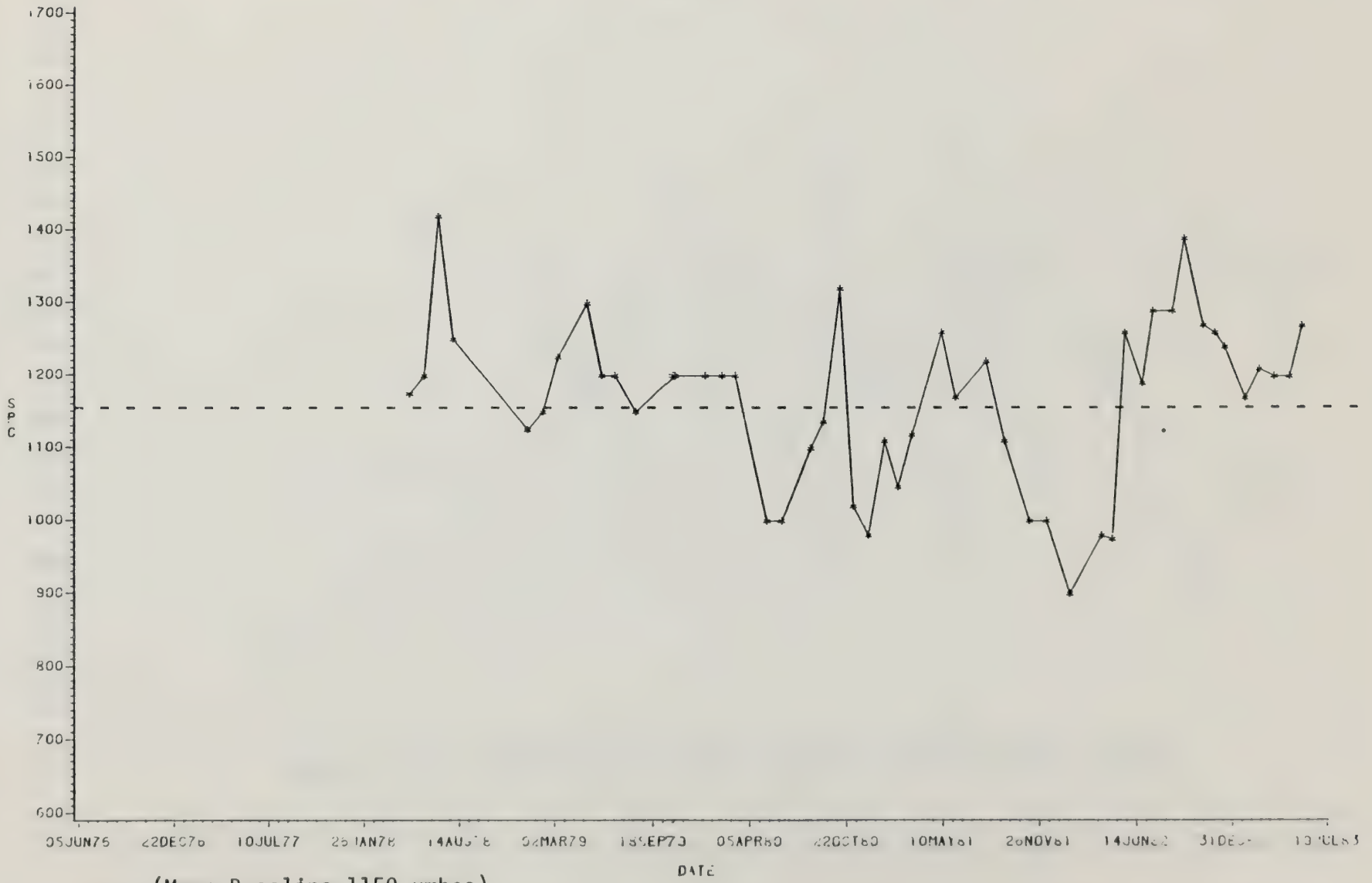
LOC=WS02



- - - (Mean Baseline 1255 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

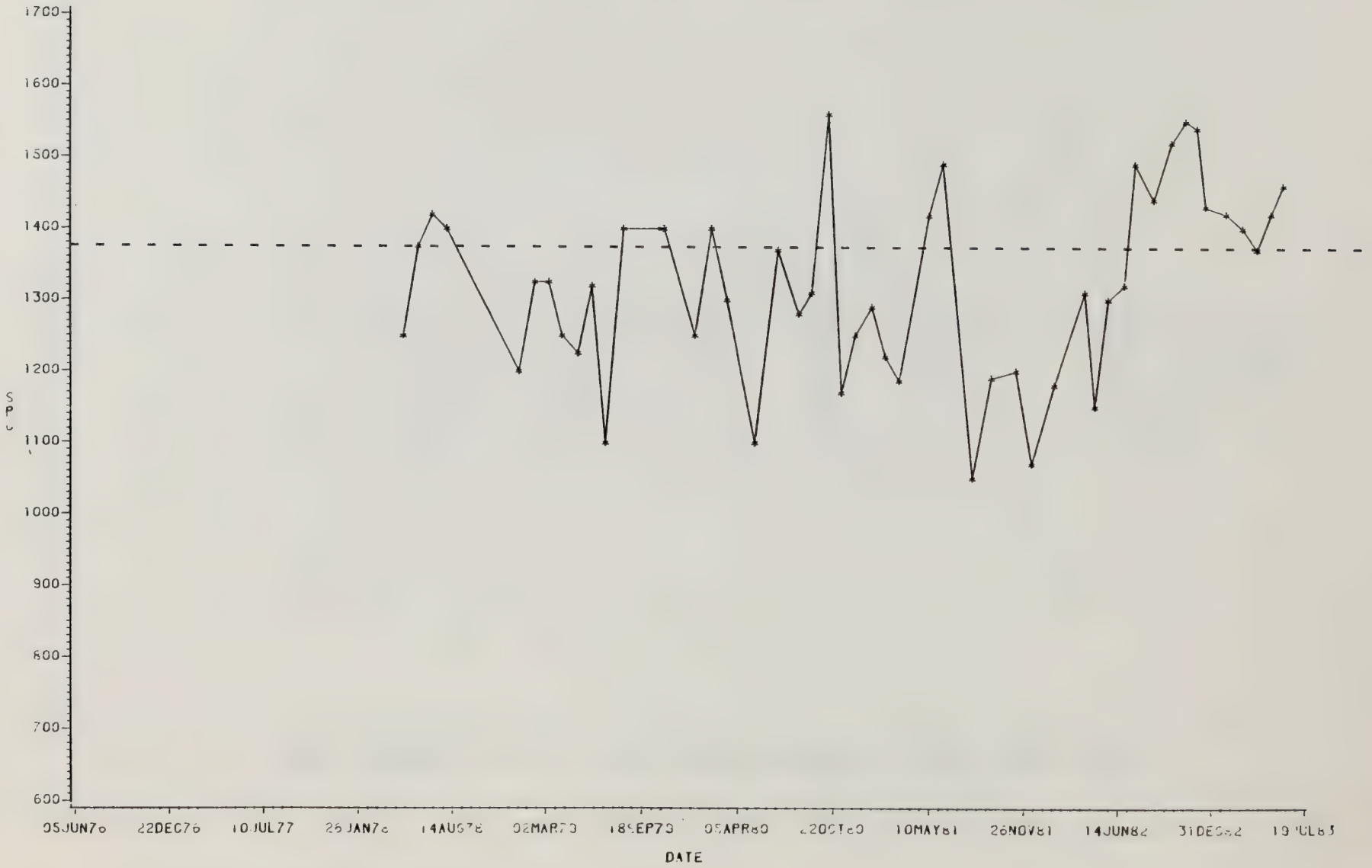
LOC=WS04



- - - (Mean Baseline 1150 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

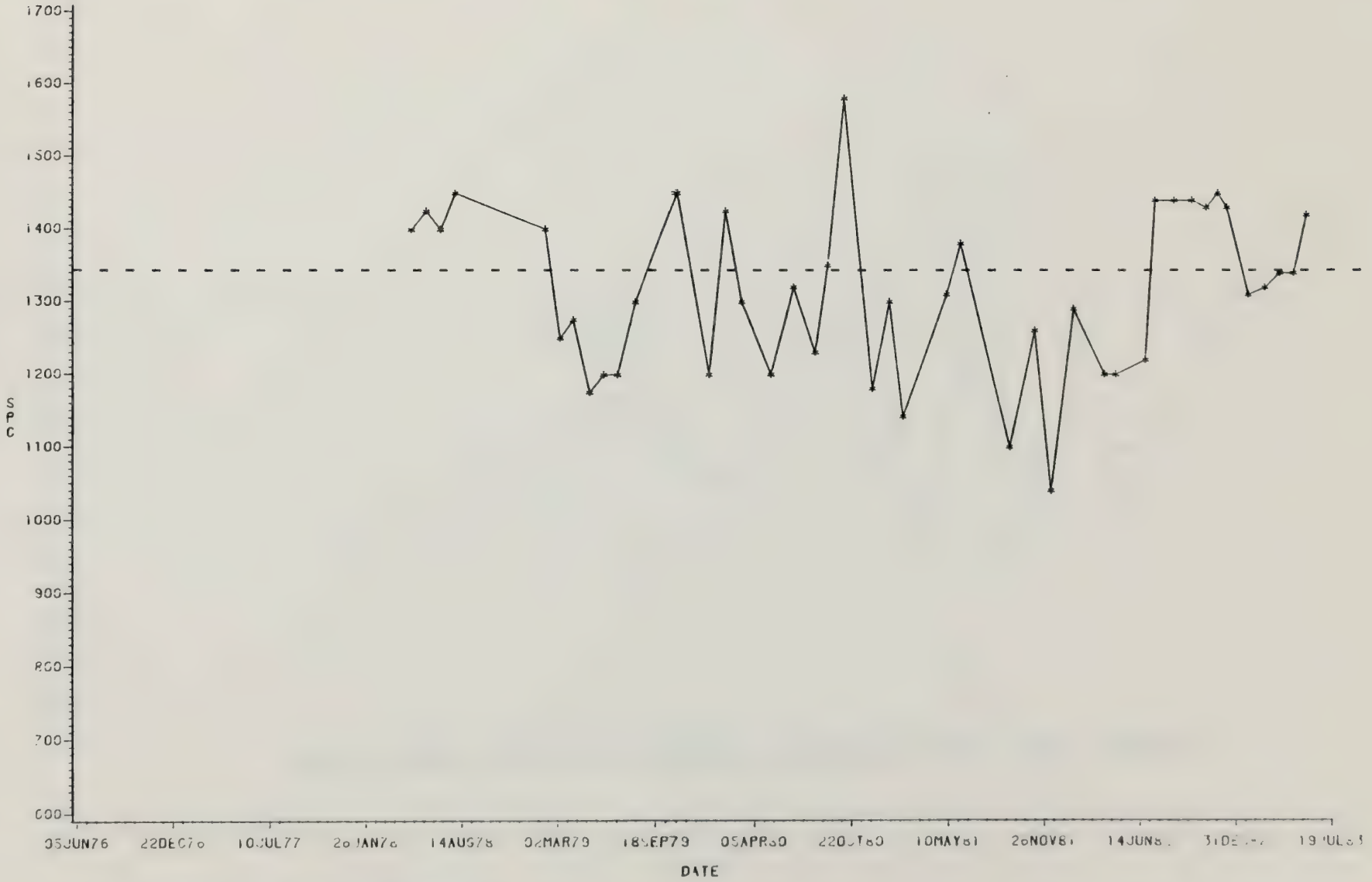
LOC=WS05



- - - (Mean Baseline 1372 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

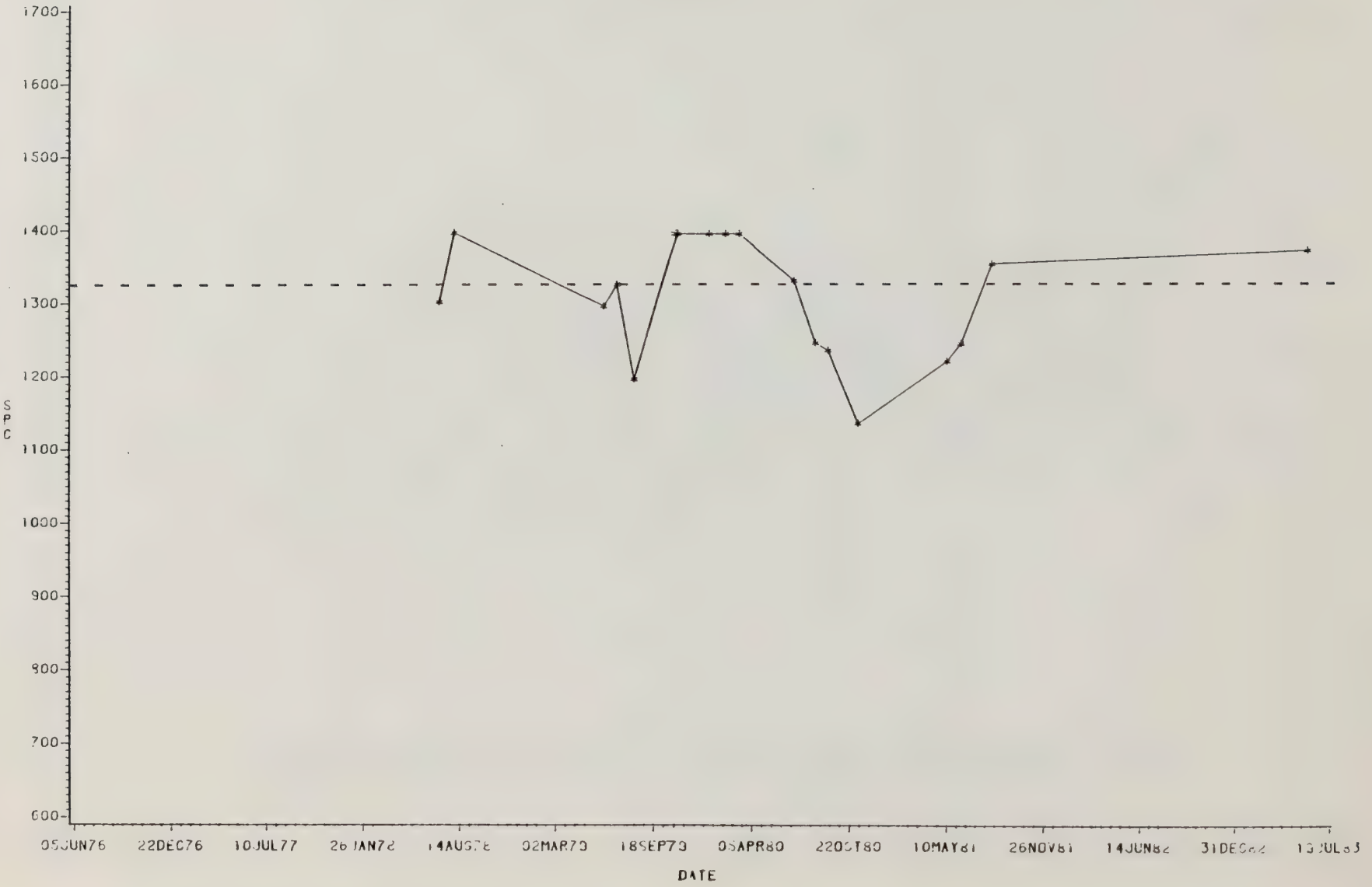
LOC=WSO7



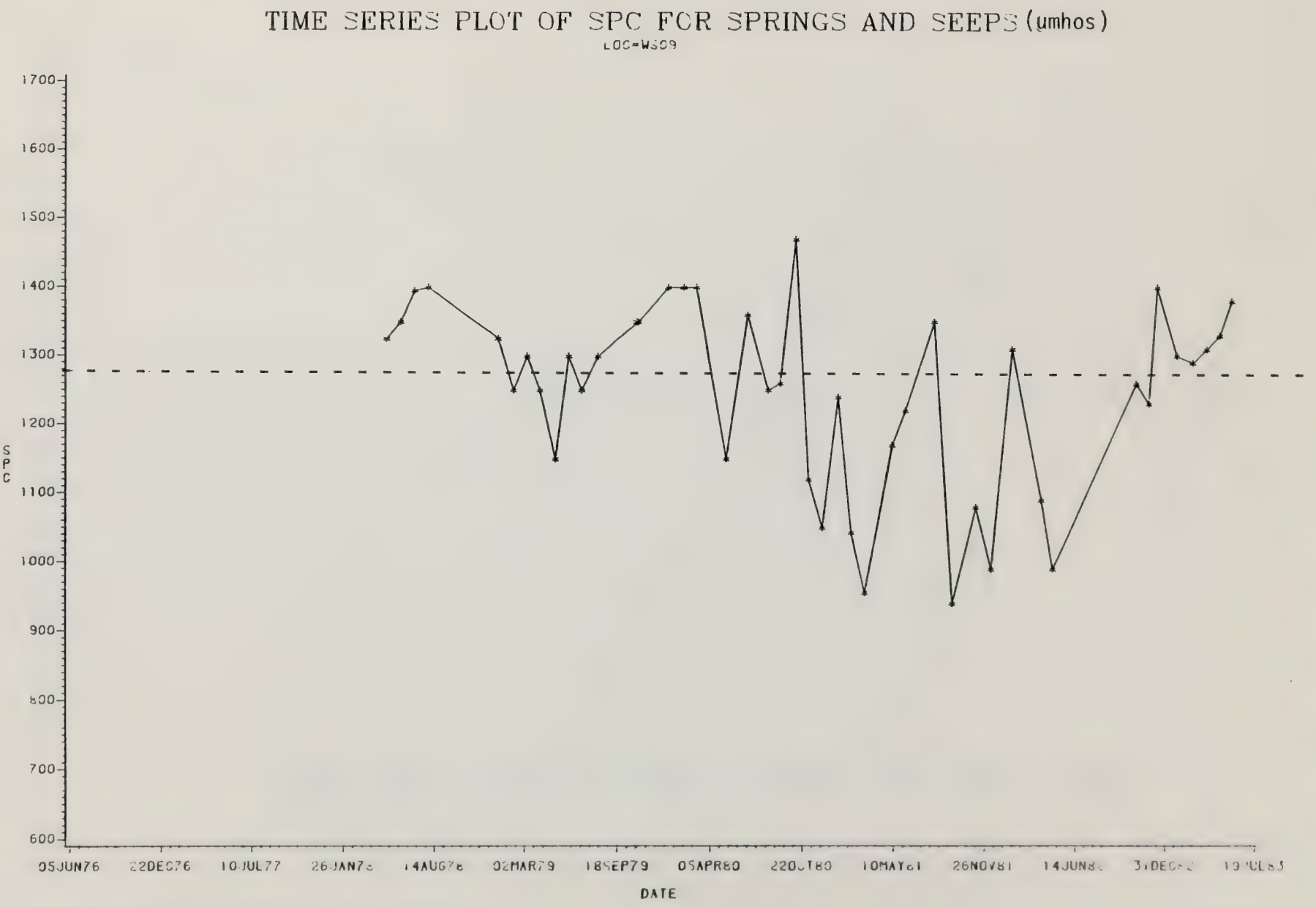
- - - (Mean Baseline 1342 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

LOC=WSOS

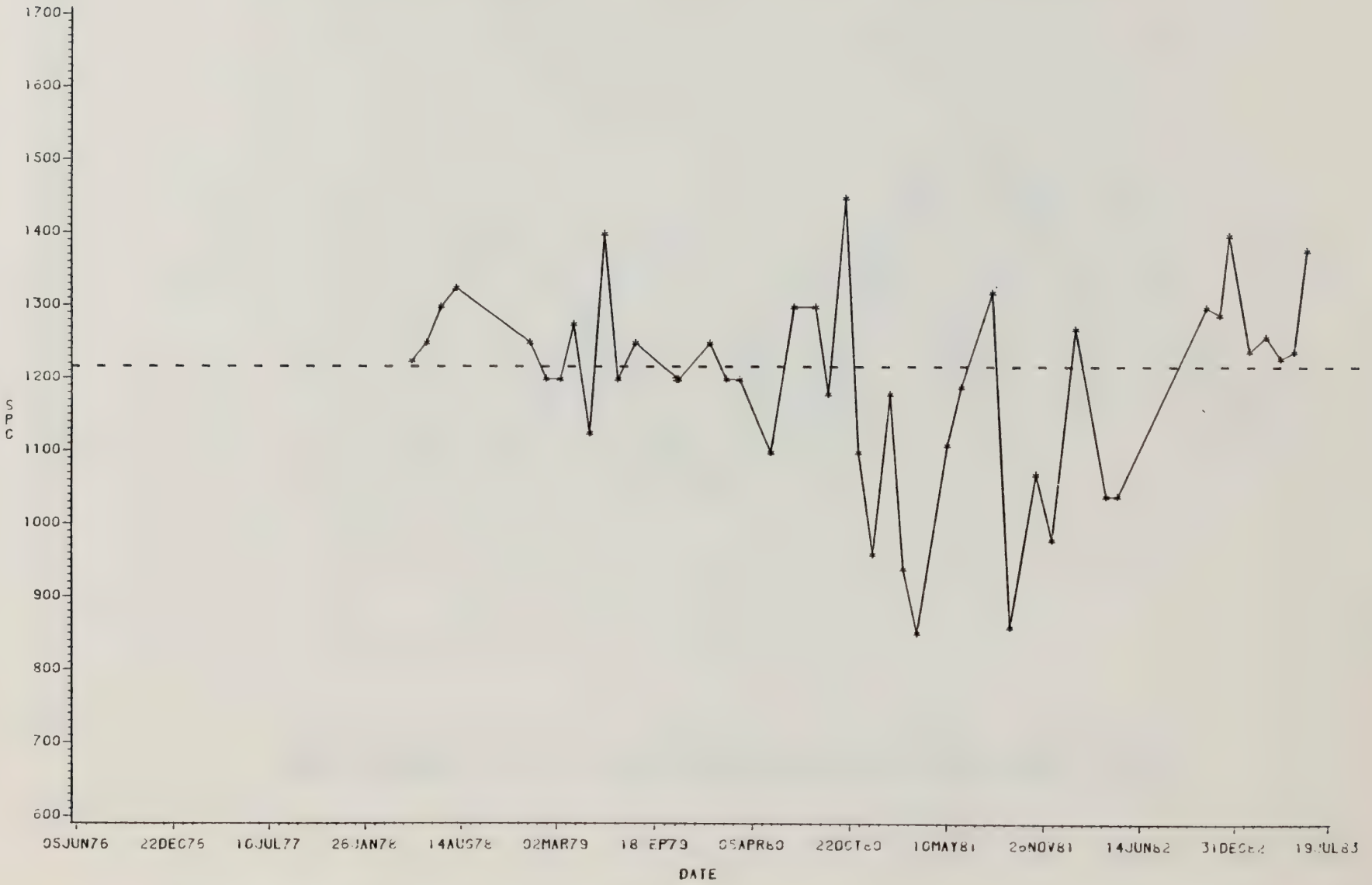


- - - (Mean Baseline 1322 umhos)


TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)
LOC=WS09
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
SPC
05JUN76
22DEC76
10JUL77
26JAN78
14AUG78
02MAR79
18SEP79
05APR80
22OCT80
10MAY81
26NOV81
14JUN82
DATE
- - - (Mean Baseline 1279 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

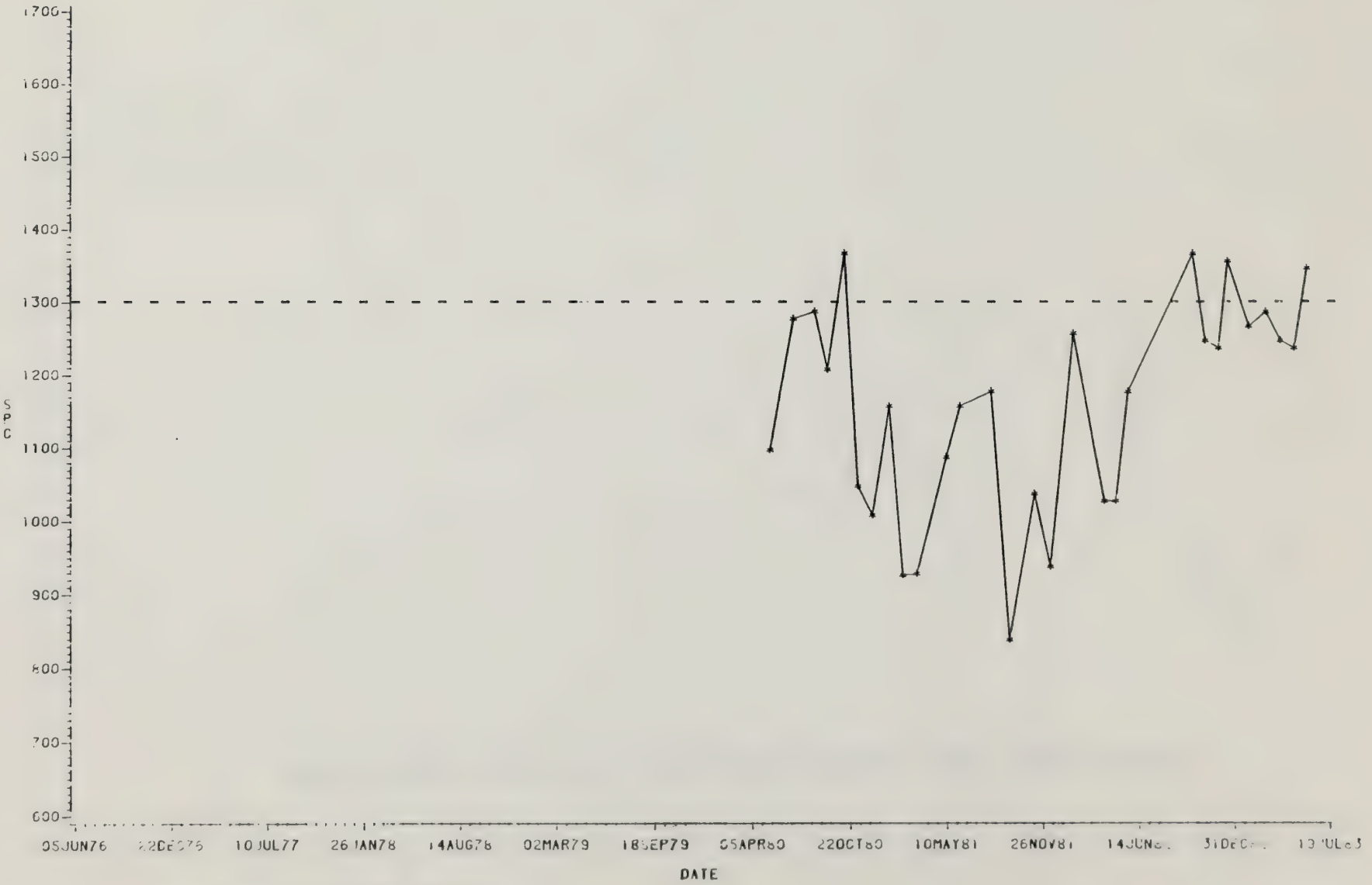
LOC=WS10



- - - (Mean Baseline 1215 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

LOC=WS11

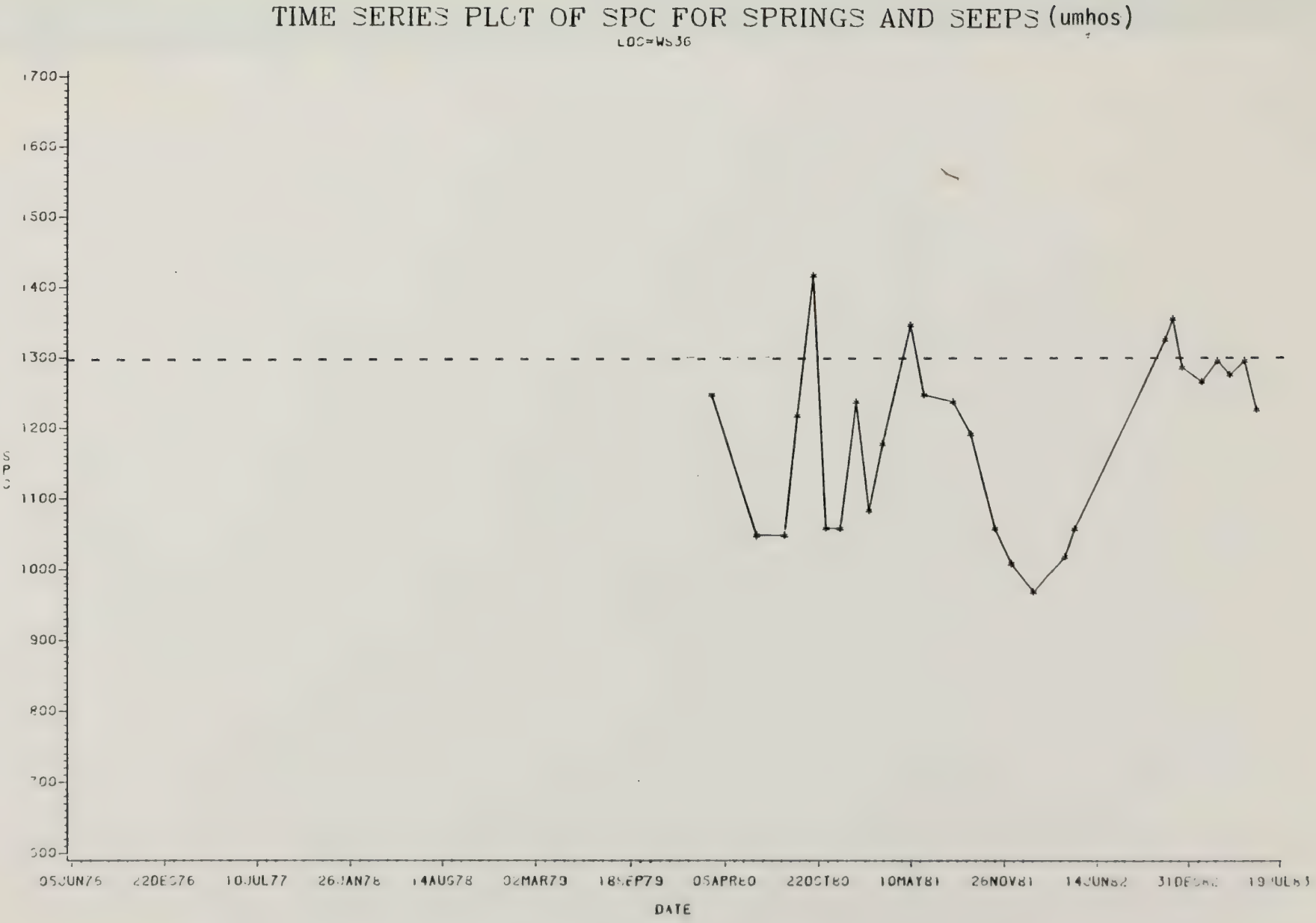


- - - (Mean Baseline 1300 umhos)

TIME SERIES PLOT OF SPC FOR SPRINGS AND SEEPS (umhos)

LOC=WSI2

- - - (Mean Baseline 1300 umhos)



- - - (Mean Baseline 1300 umhos)

1.2.2.3 Alluvial Wells

There were no samples taken during this report period (January through May 1983).

During this report period water samples remained between the 20% range for these baseline values. If a sample should have to be taken, parameters were to be analyzed as followed by the DMP quarterly schedule, Table 1.2.2.3-1

TABLE 1.2.2.3-1

Parameters Analyzed During IMP - Alluvials

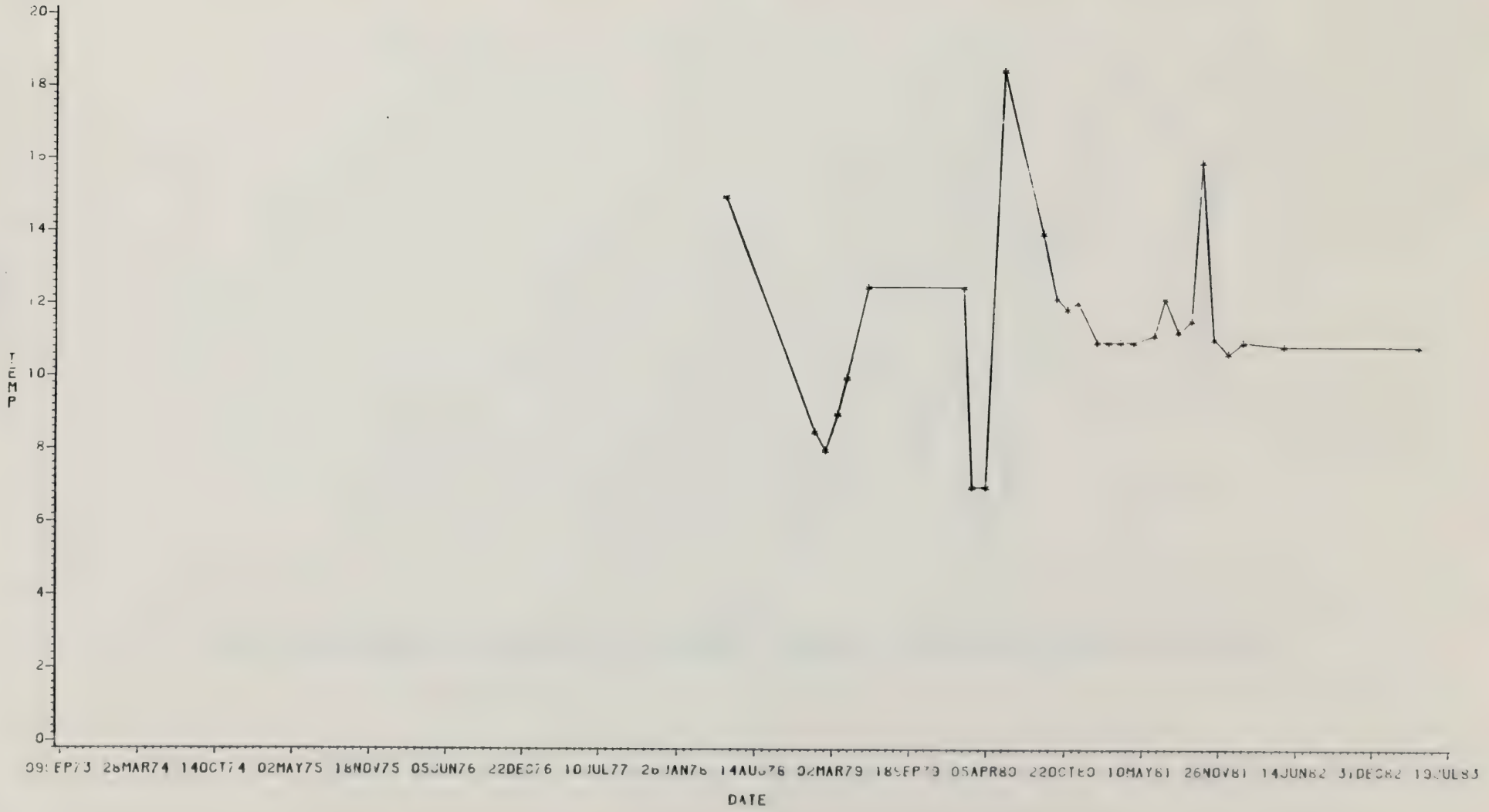
Ag	Mn	Zn	Oil and Grease
As	Pb	Na	Kjeldahl N
Ba	Mo	K	COD
Cd	Cl	Ca	Phenols
Cr	Li	Mg	TDS
Cu	Al	Fluoride	SO_4
Fe	Sr	B	CO_3
Hg	Se	Ni	HCO_3
Alkalinity	Hardness	Ammonia	No

TABLE 1.2.2.3-2

Station	Code	Temperature	pH	Specific Conductance
A-1	WA01	I-421	I-434	I-447
A-2	WA02	I-422	I-435	I-448
A-3	WA03	I-423	I-436	I-449
A-5	WA05	I-424	I-437	I-450
A-6	WA06	I-425	I-438	I-451
A-7	WA07	I-426	I-439	I-452
A-8	WA08	I-427	I-440	I-453
A-9	WA09	I-428	I-441	I-454
A-10	WA10	I-429	I-442	I-455
A-11	WA11	I-430	I-443	I-456
A-12	WA12	I-431	I-444	I-457
A-5A	WA55	I-432	I-445	I-458
A-5B	WA56	I-433	I-446	I-459

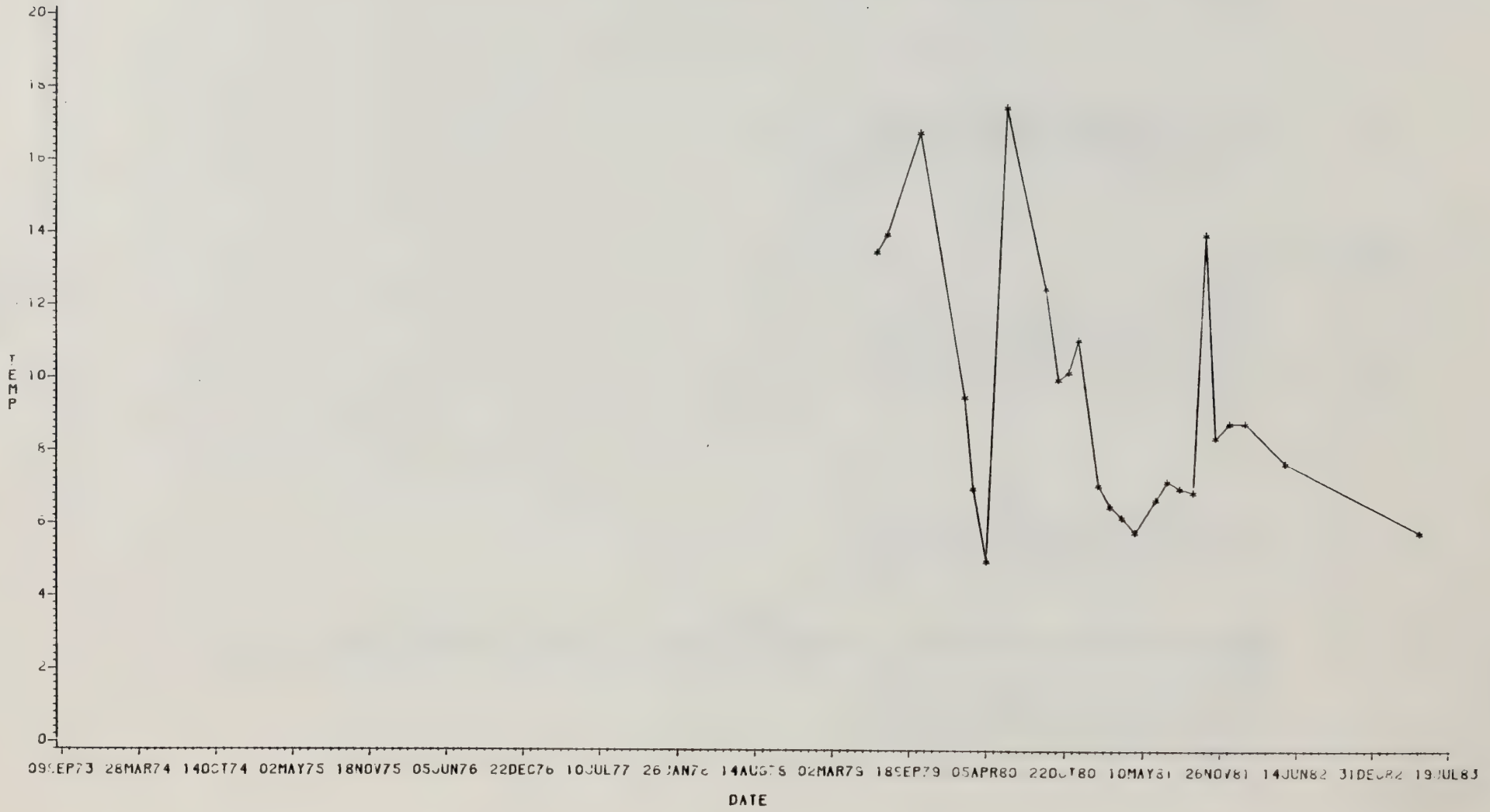
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA01



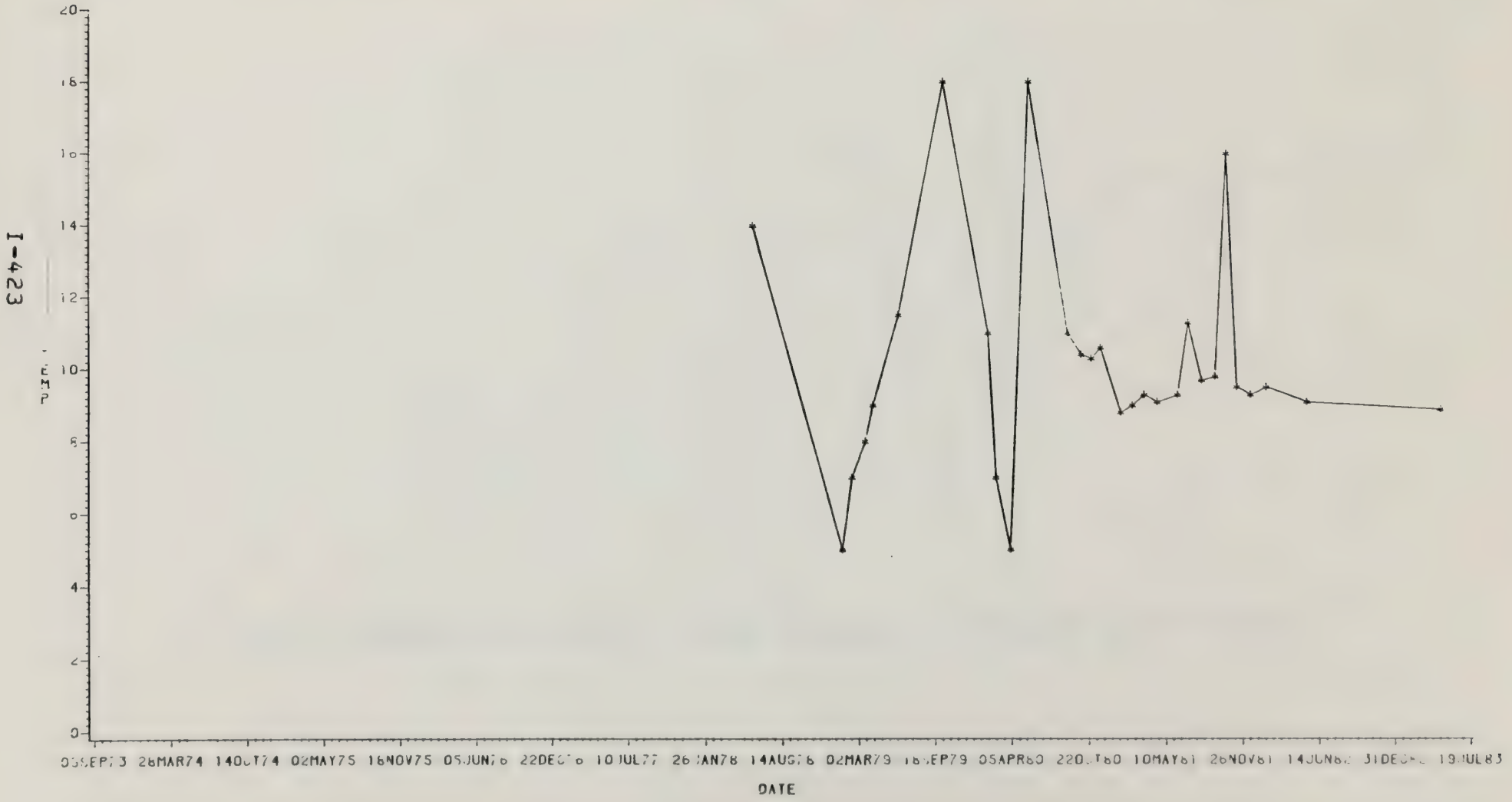
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA02



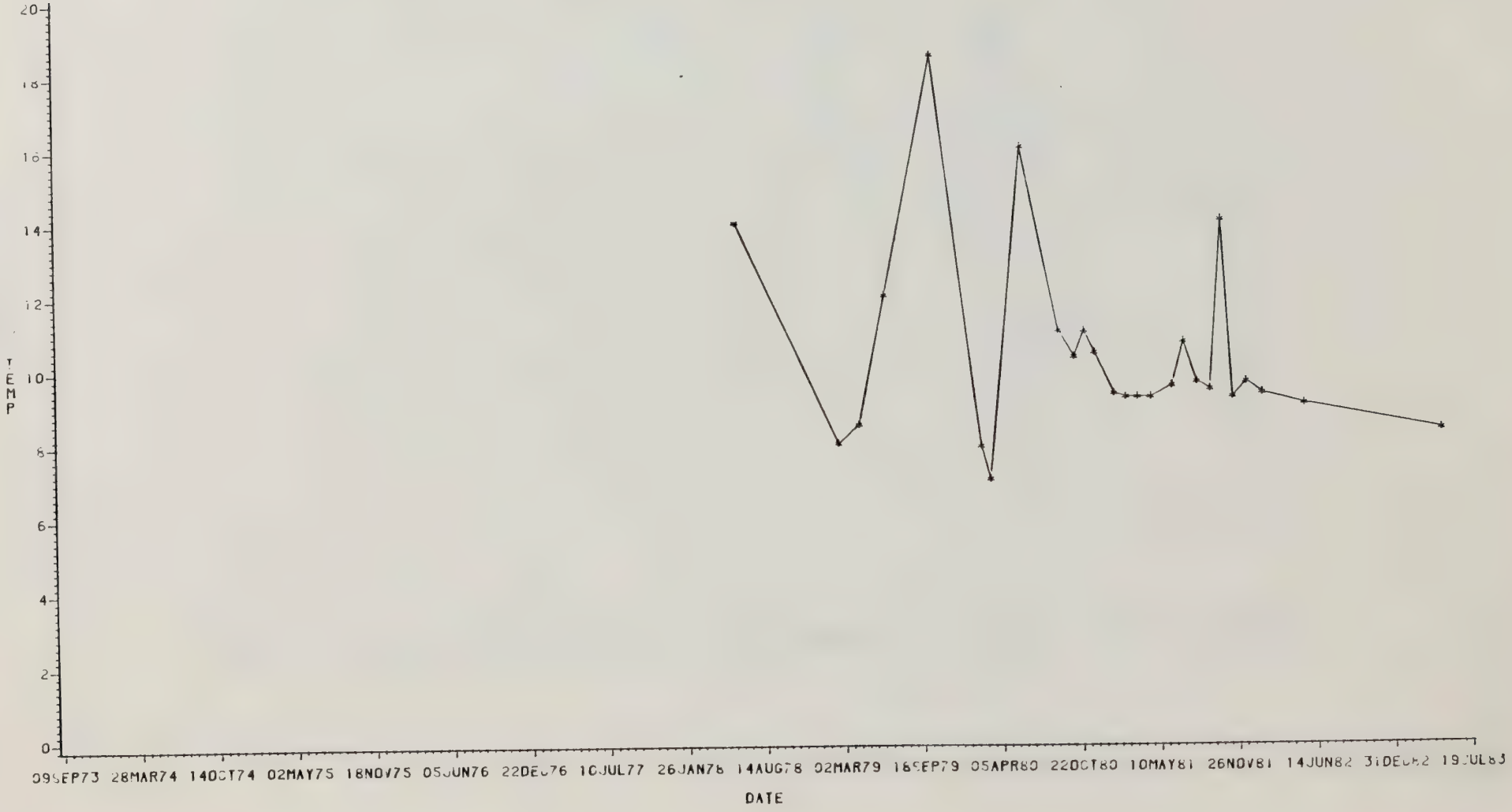
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA03



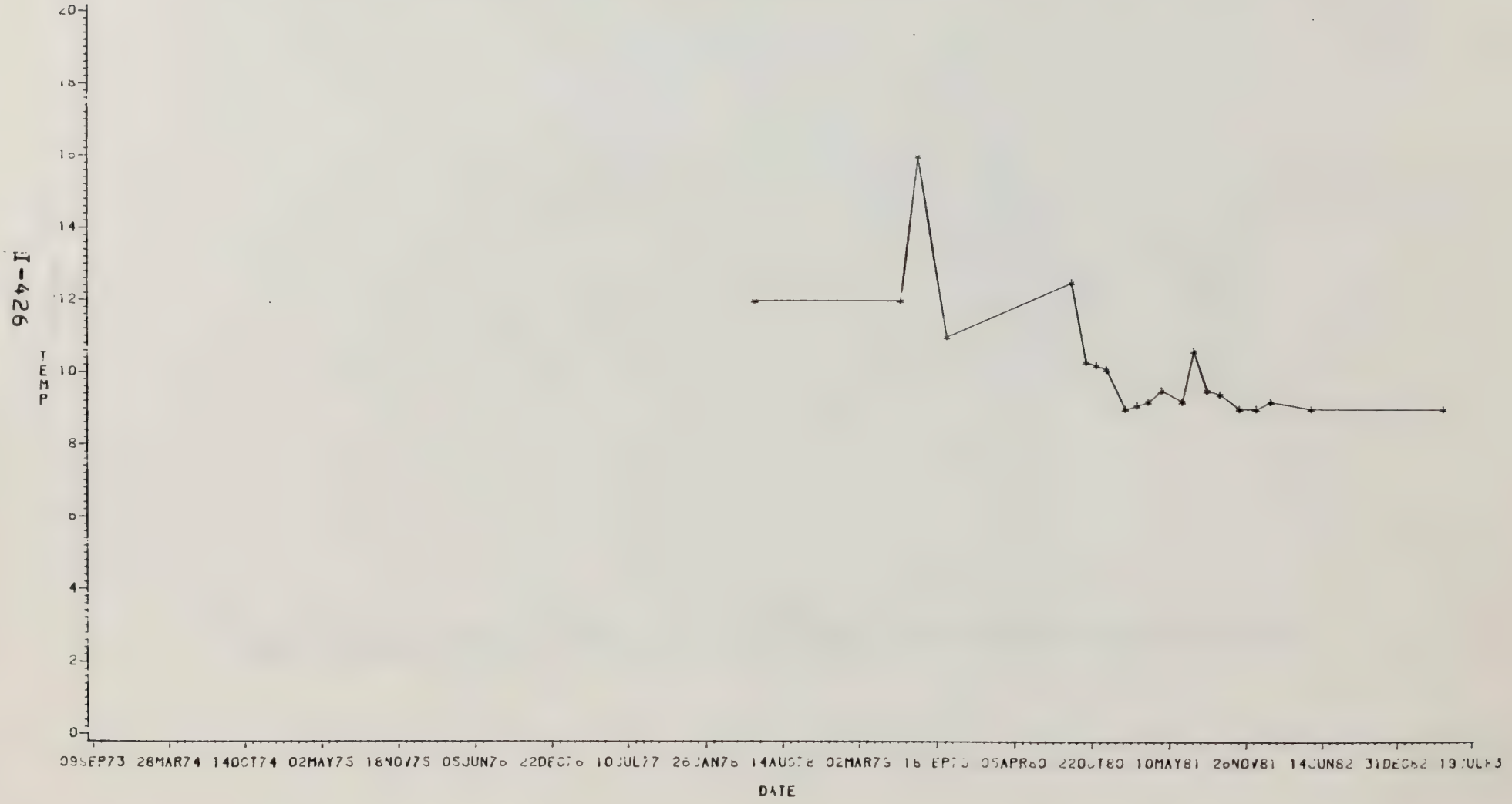
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA05



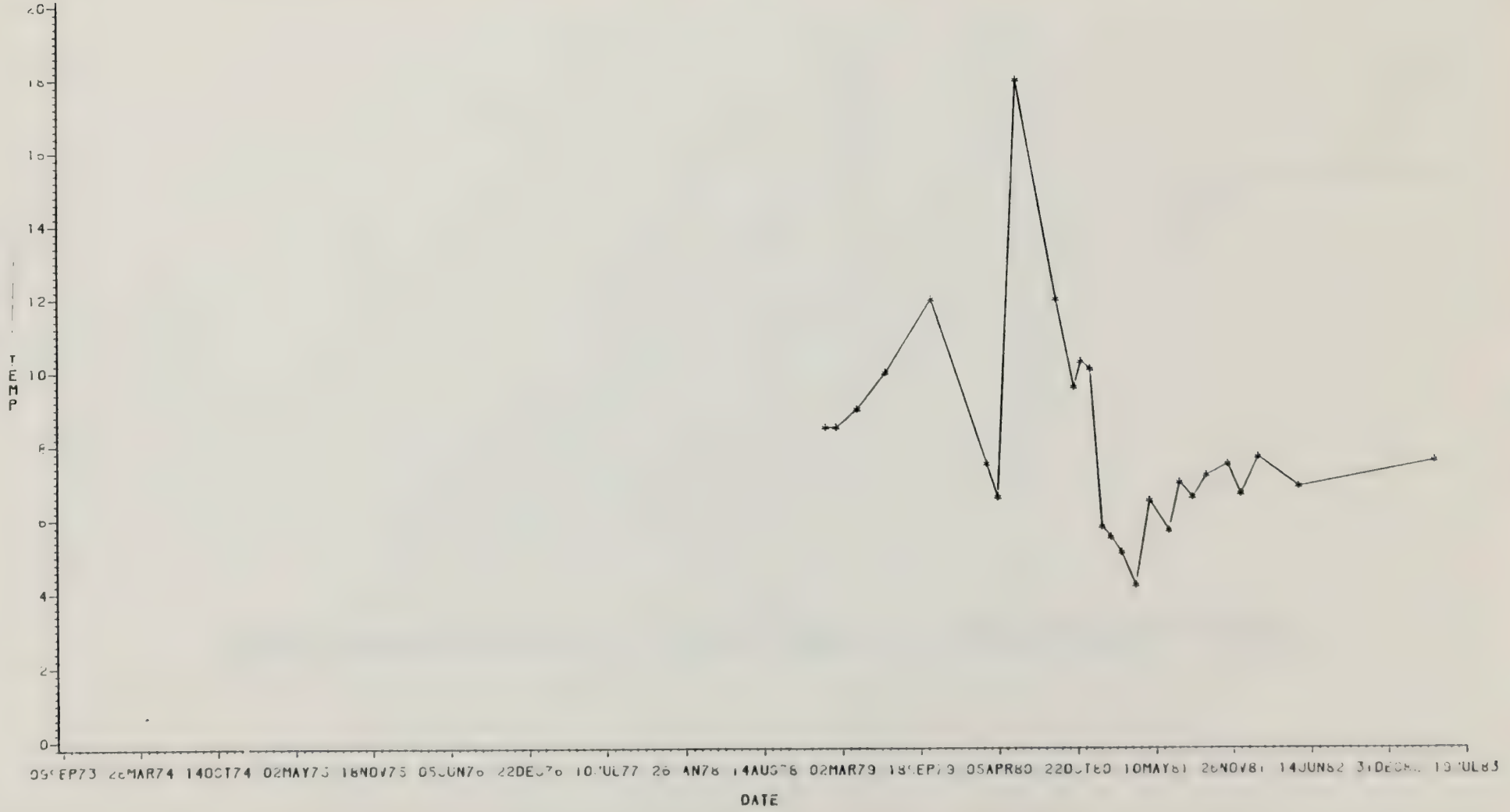
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

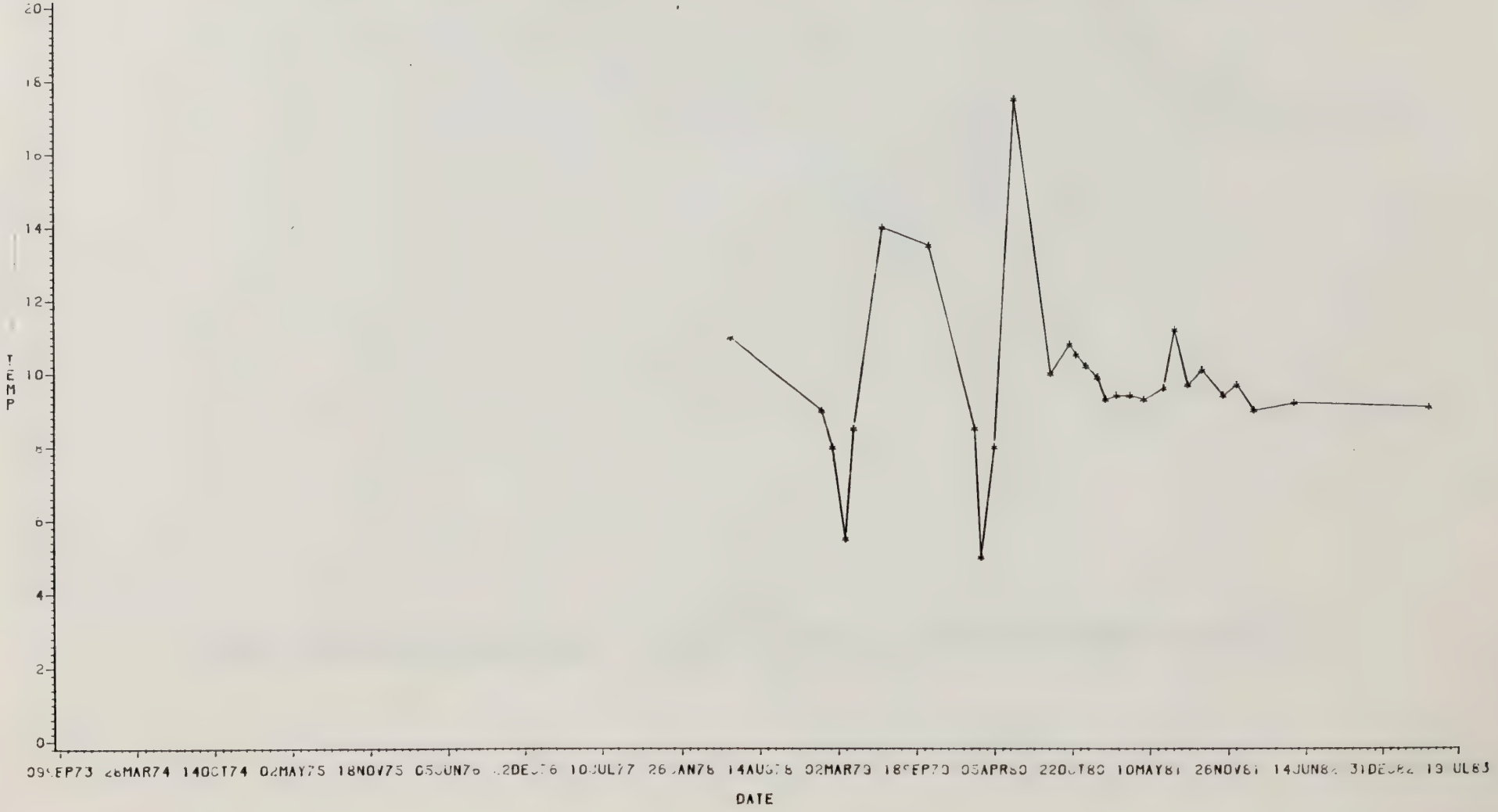


FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA08

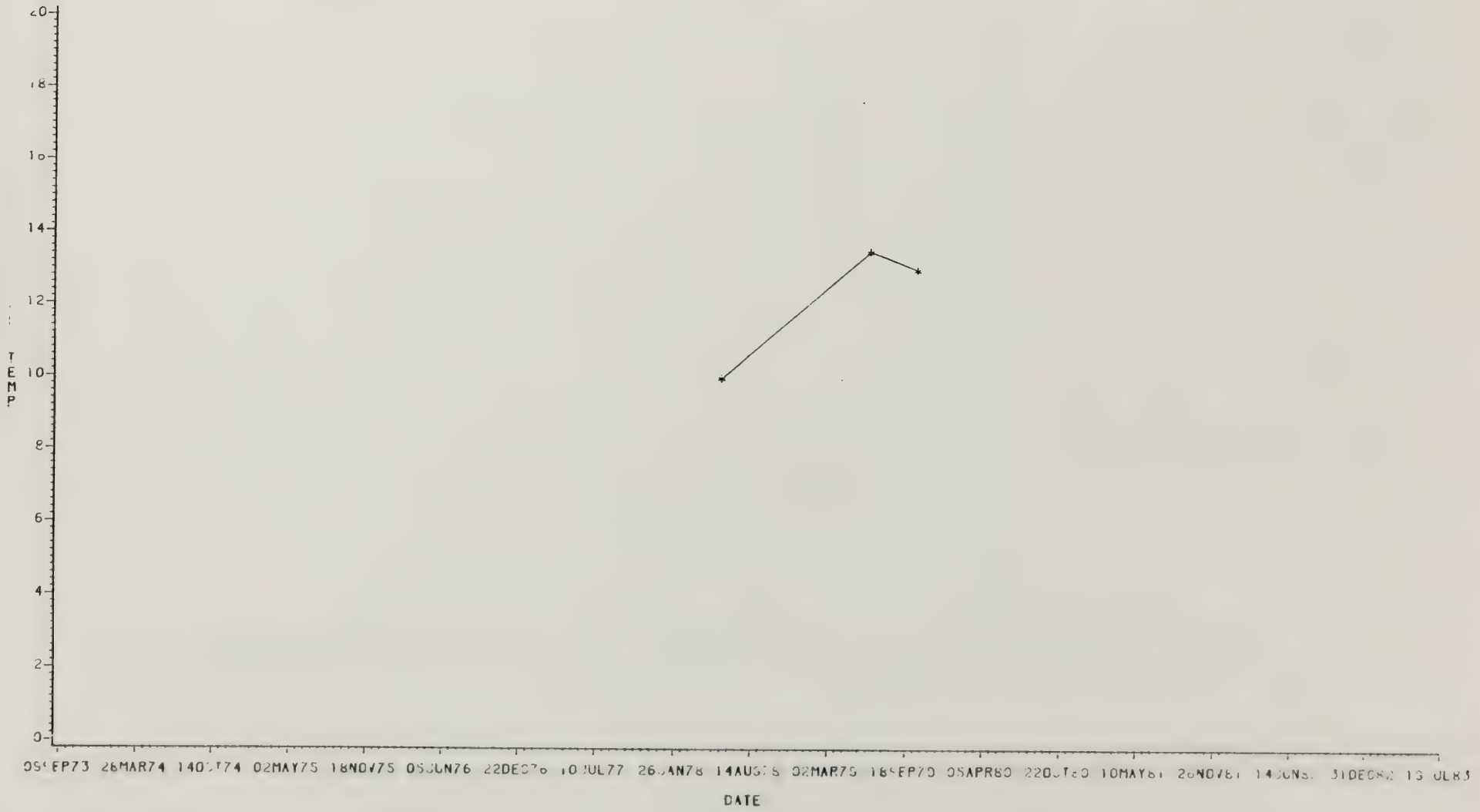


FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS



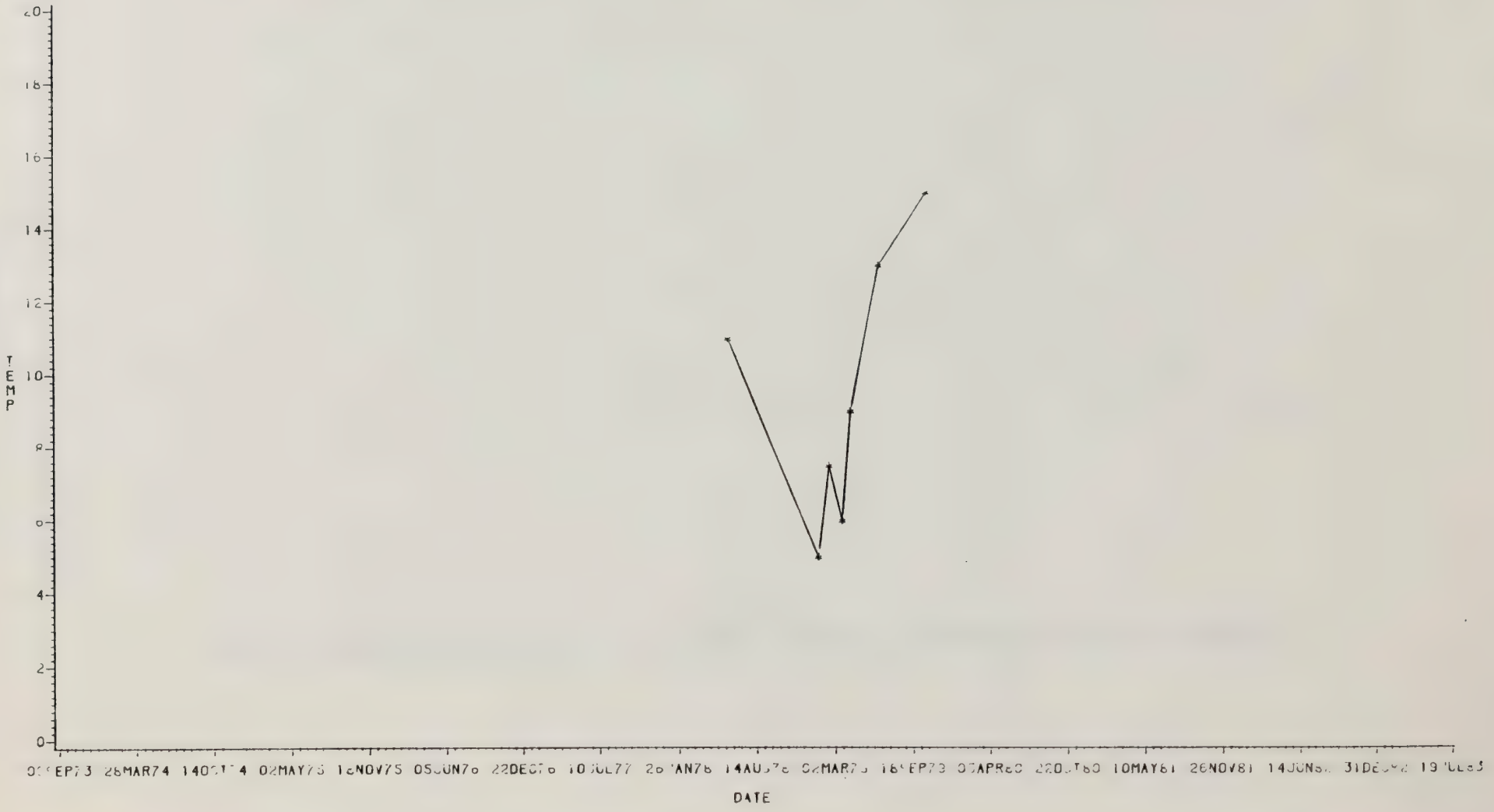
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA10



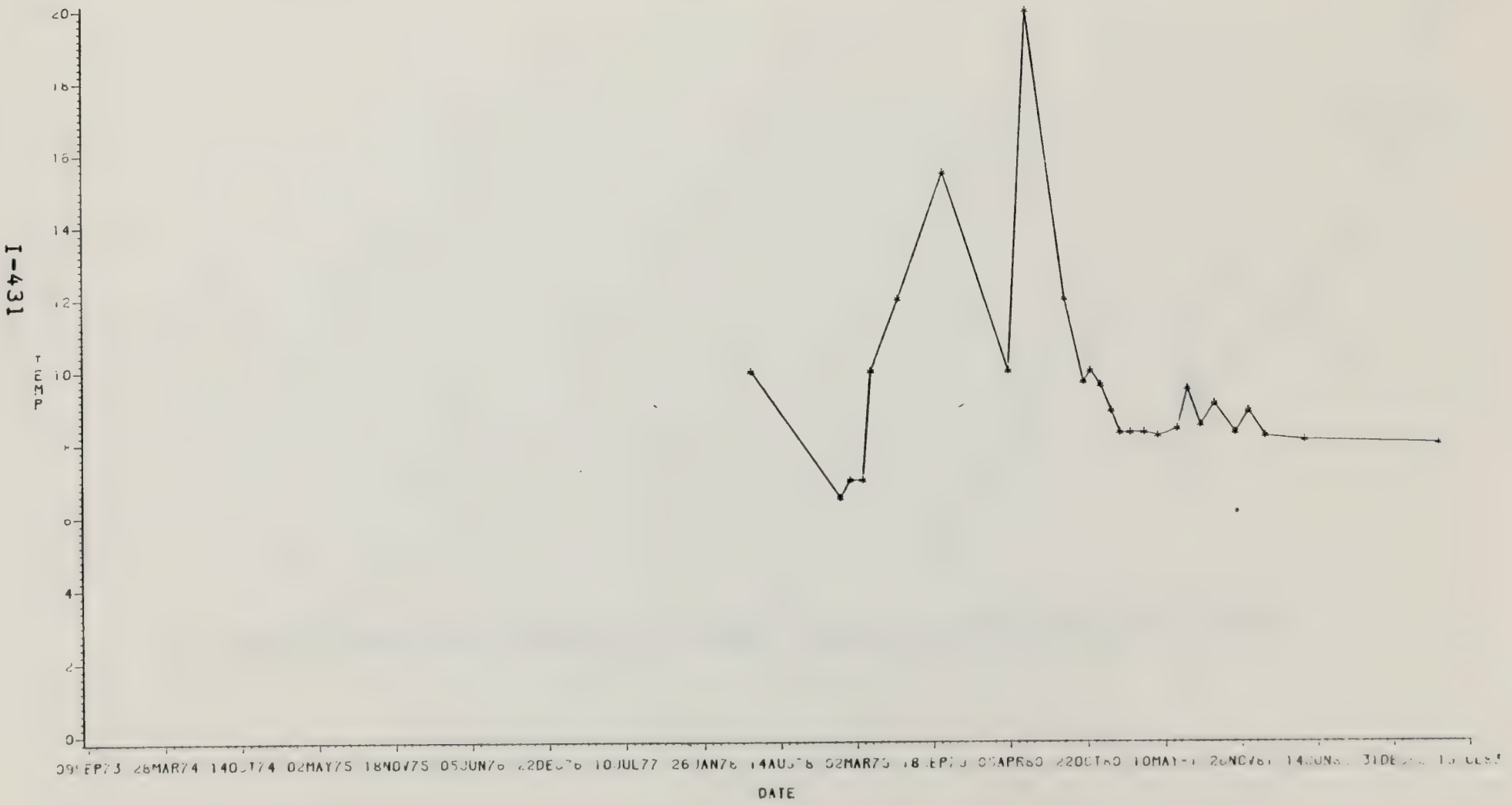
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA11

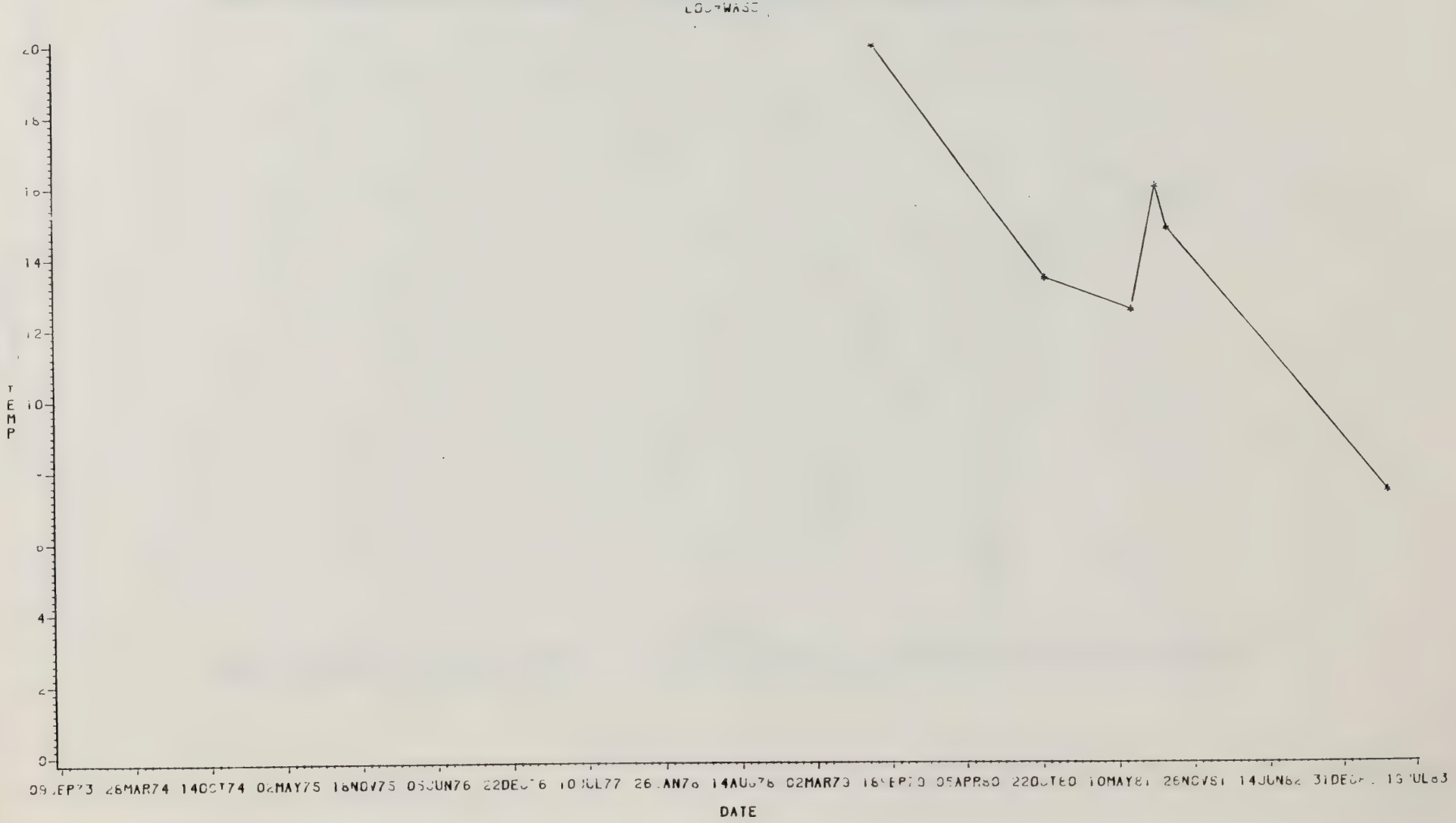


FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA12

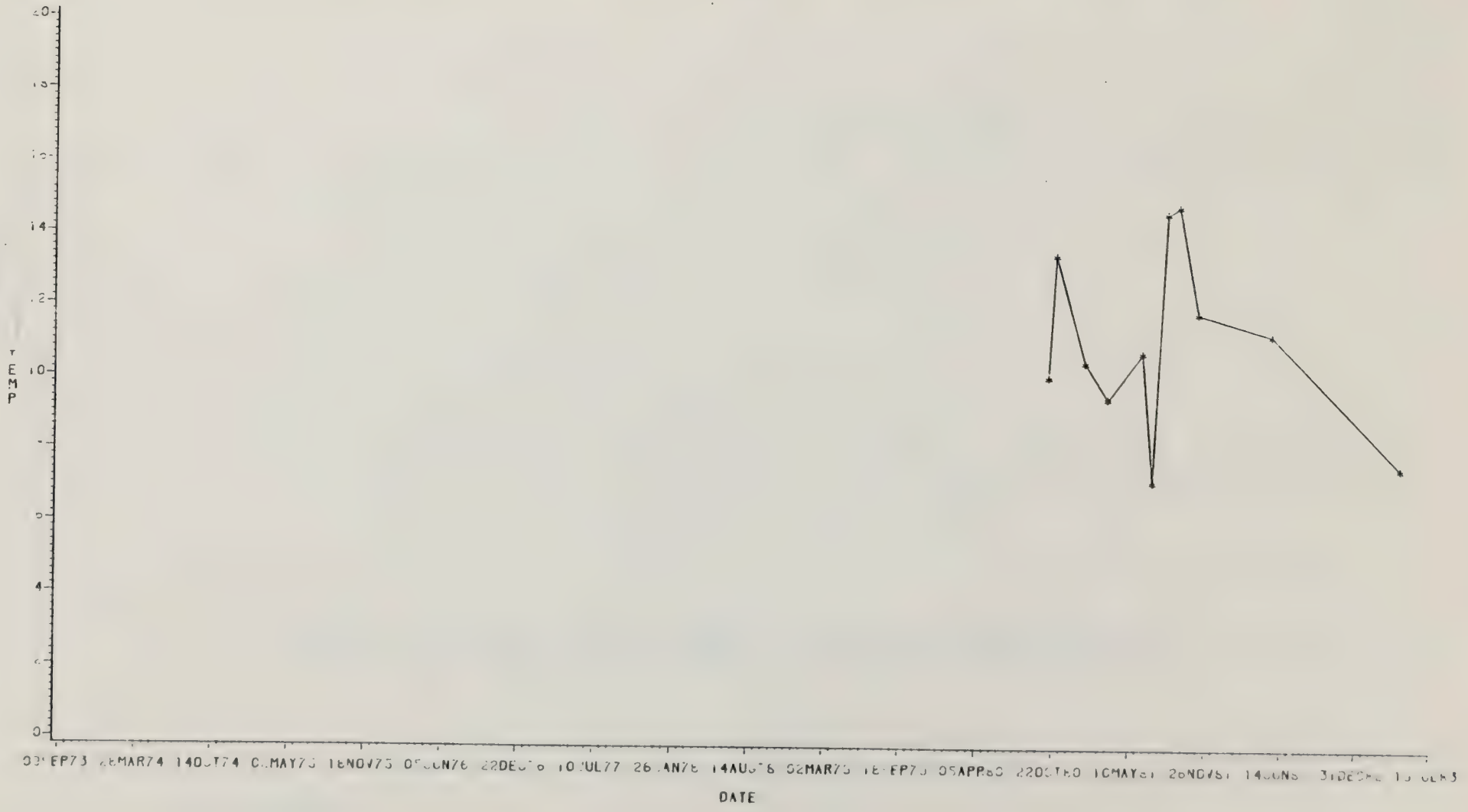


FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS



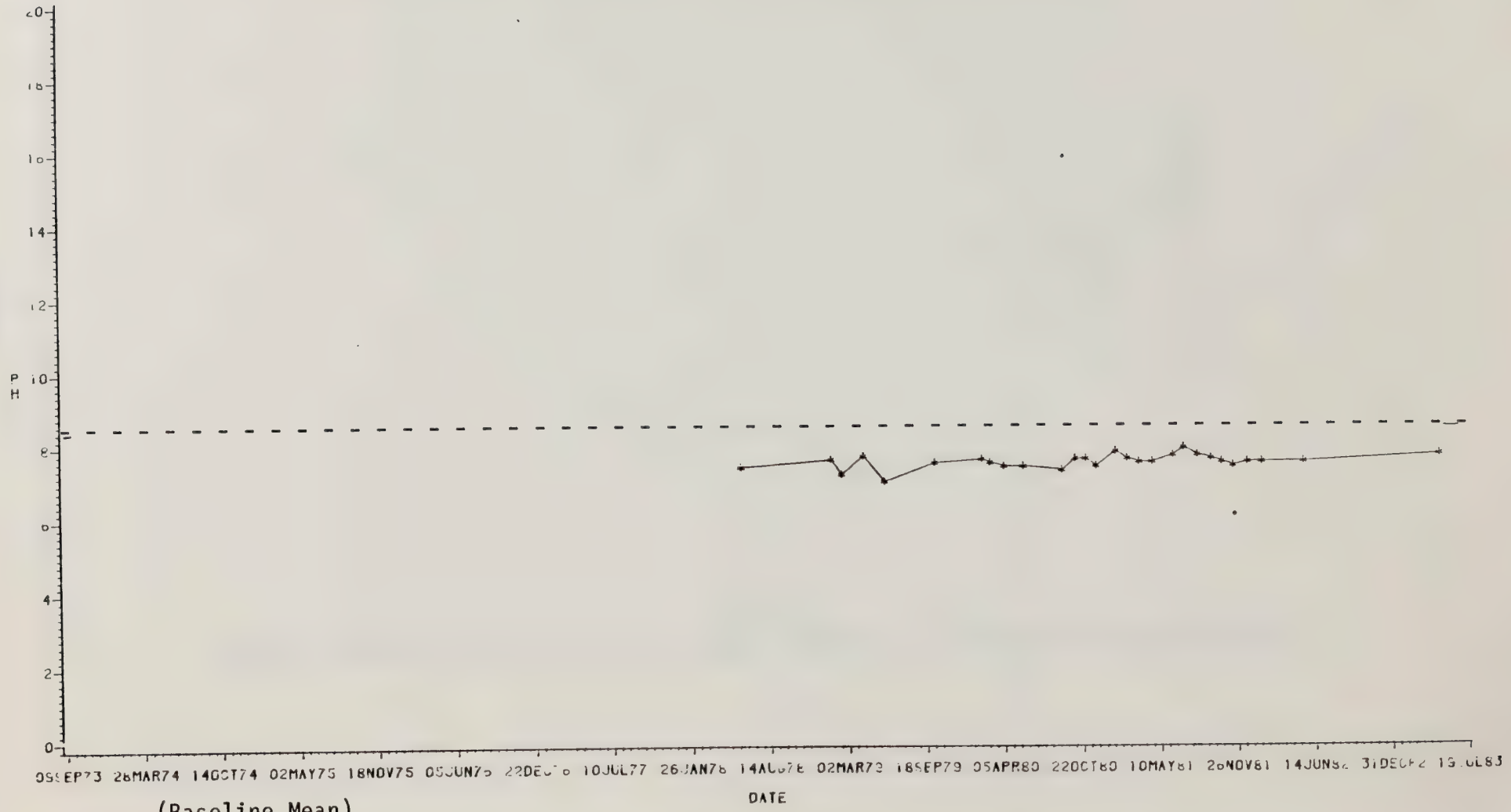
FIELD TEMPERATURE (DEG C) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA5C



FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

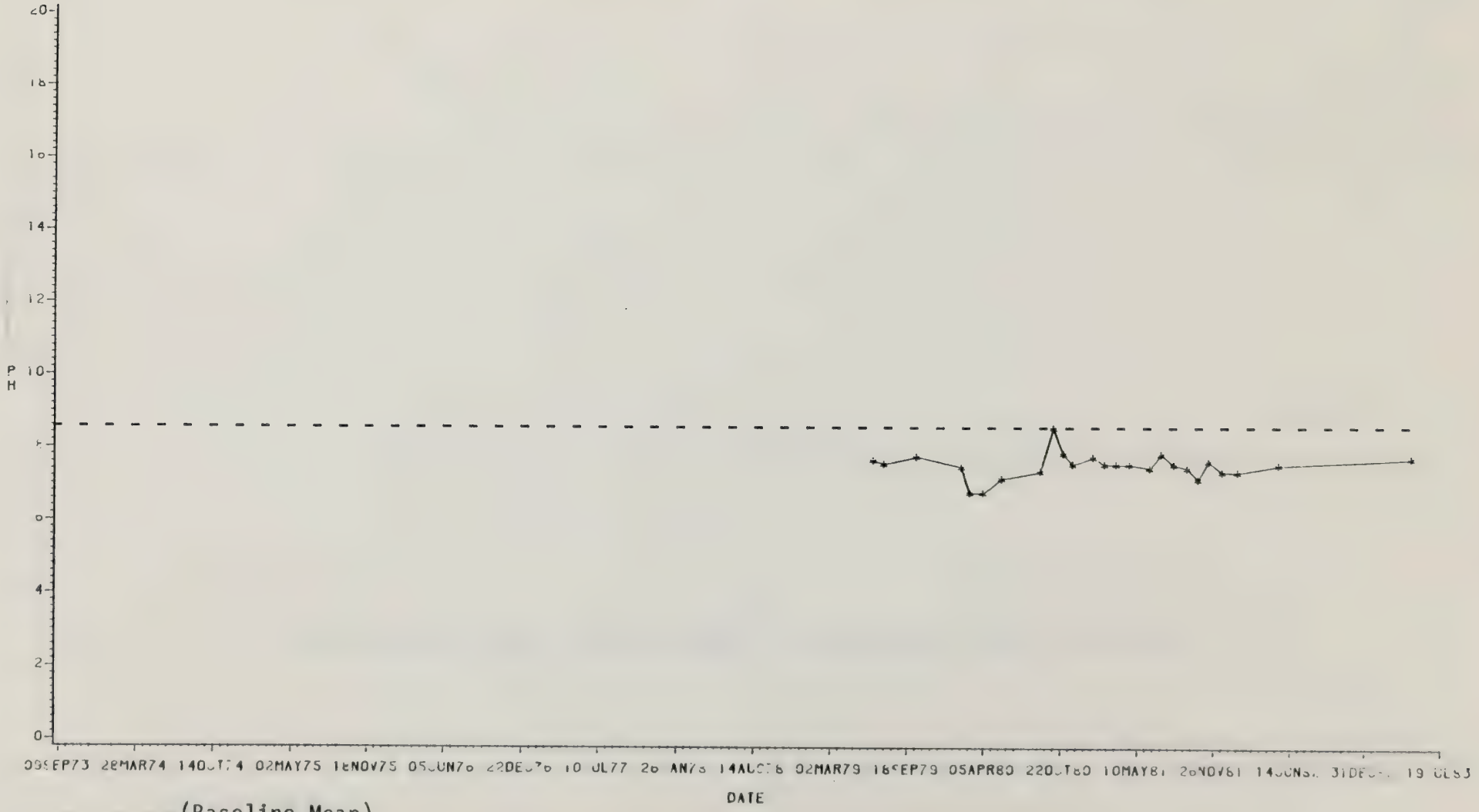
LOC=WA01



- - - -(Baseline Mean)
8.2 (units)

FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATER

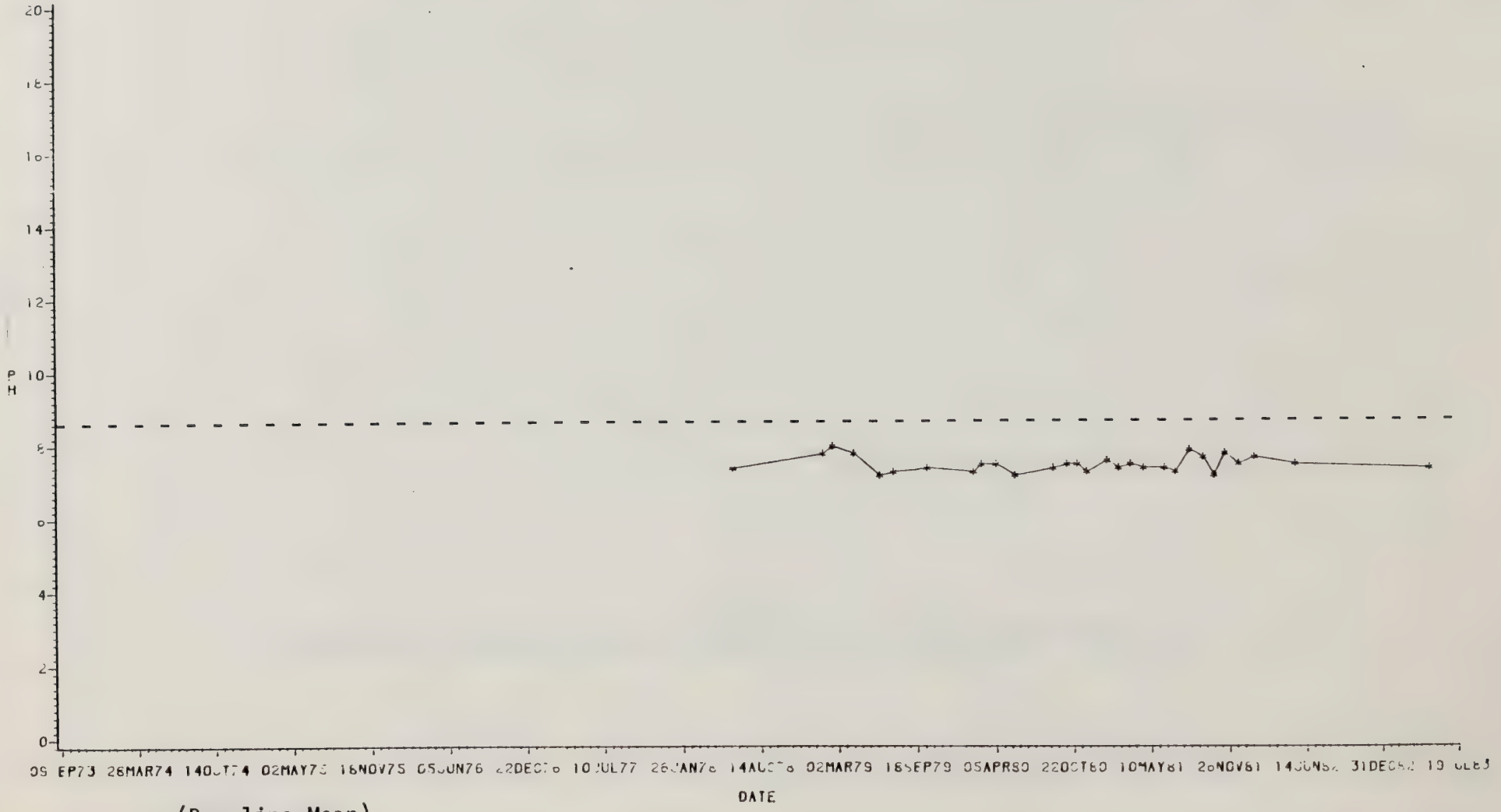
LOC=WA02



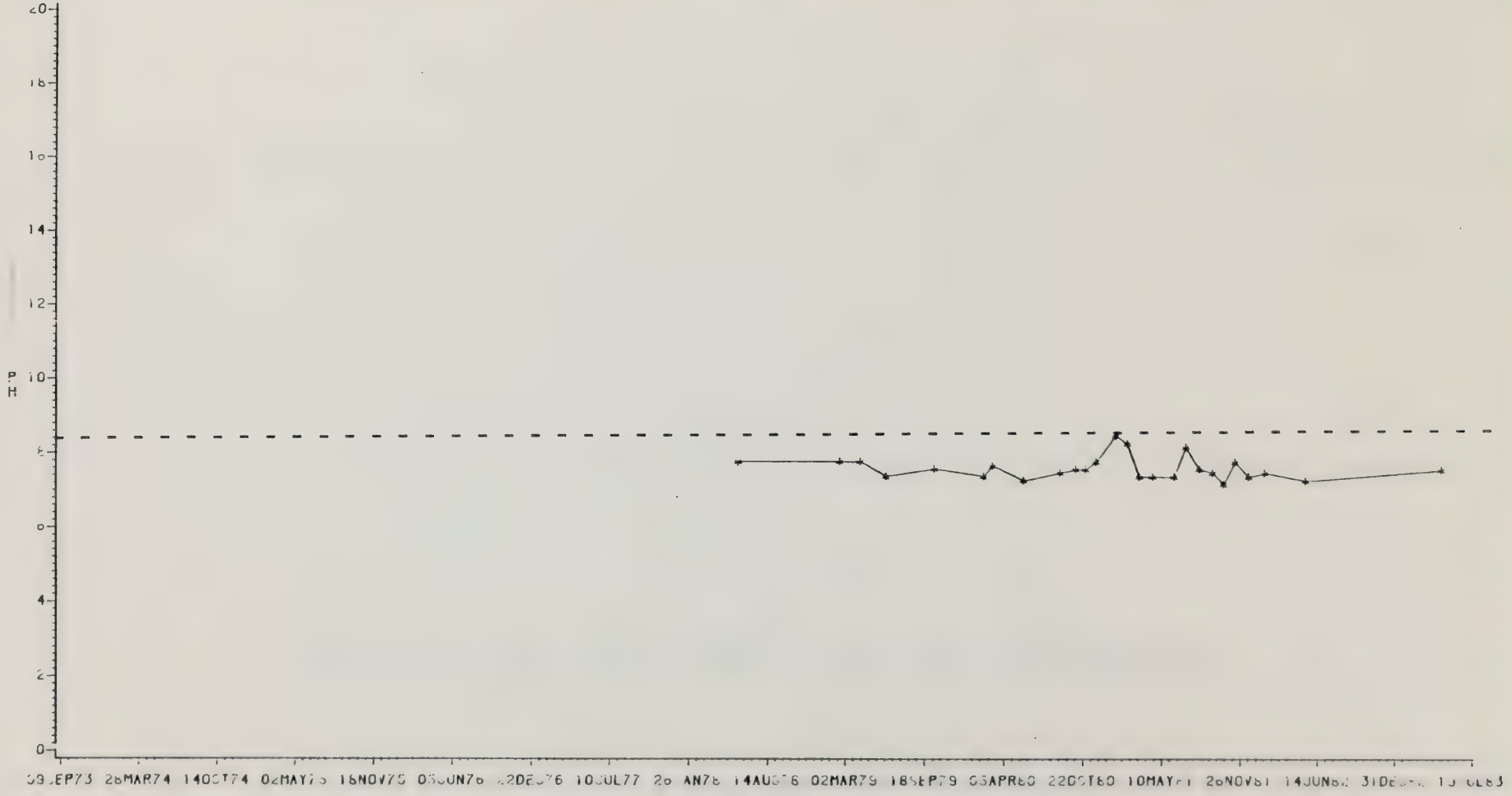
- - - - -(Baseline Mean)
8.2 (Units)

FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

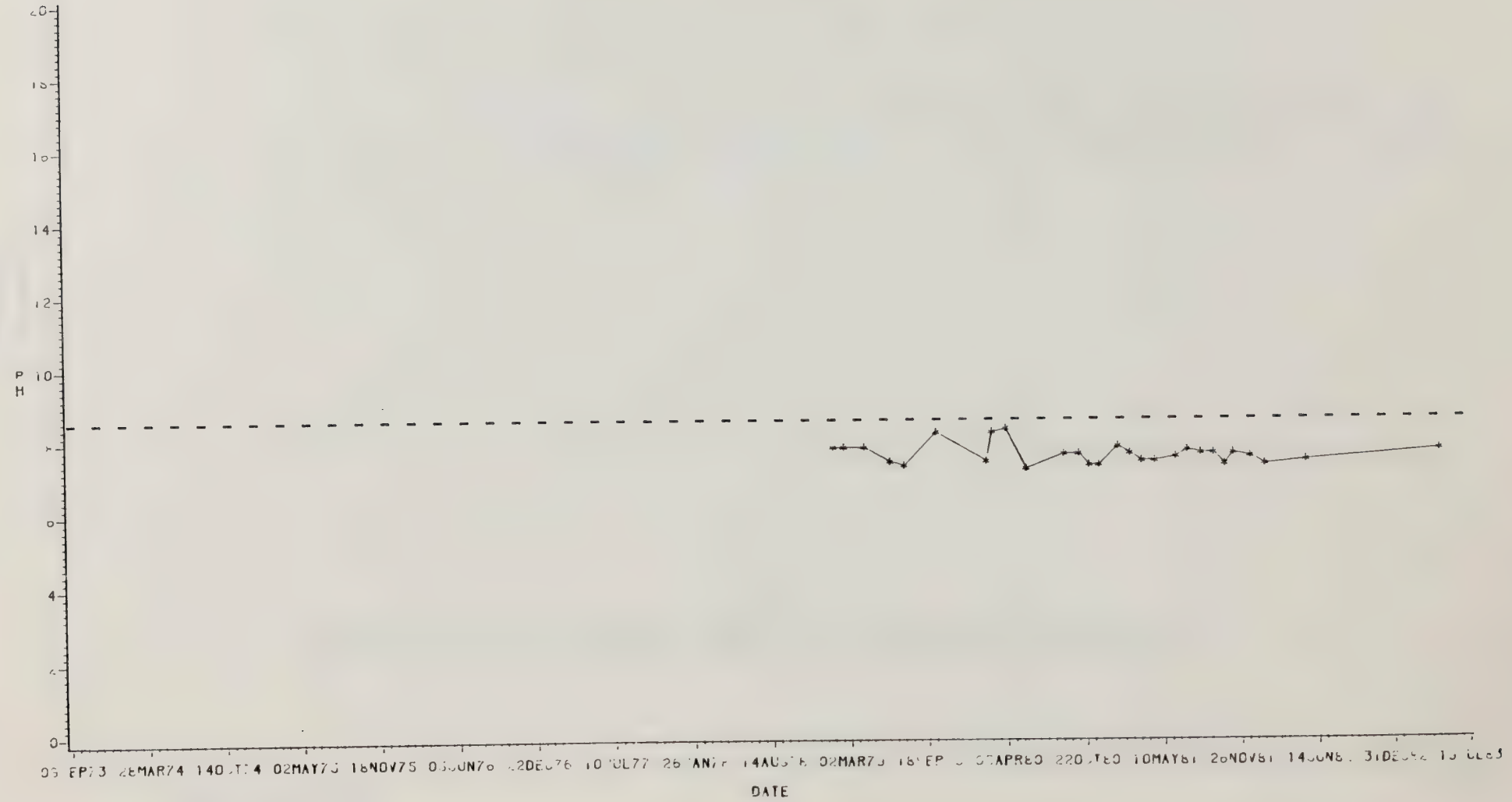
LOC=WAC3



FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS



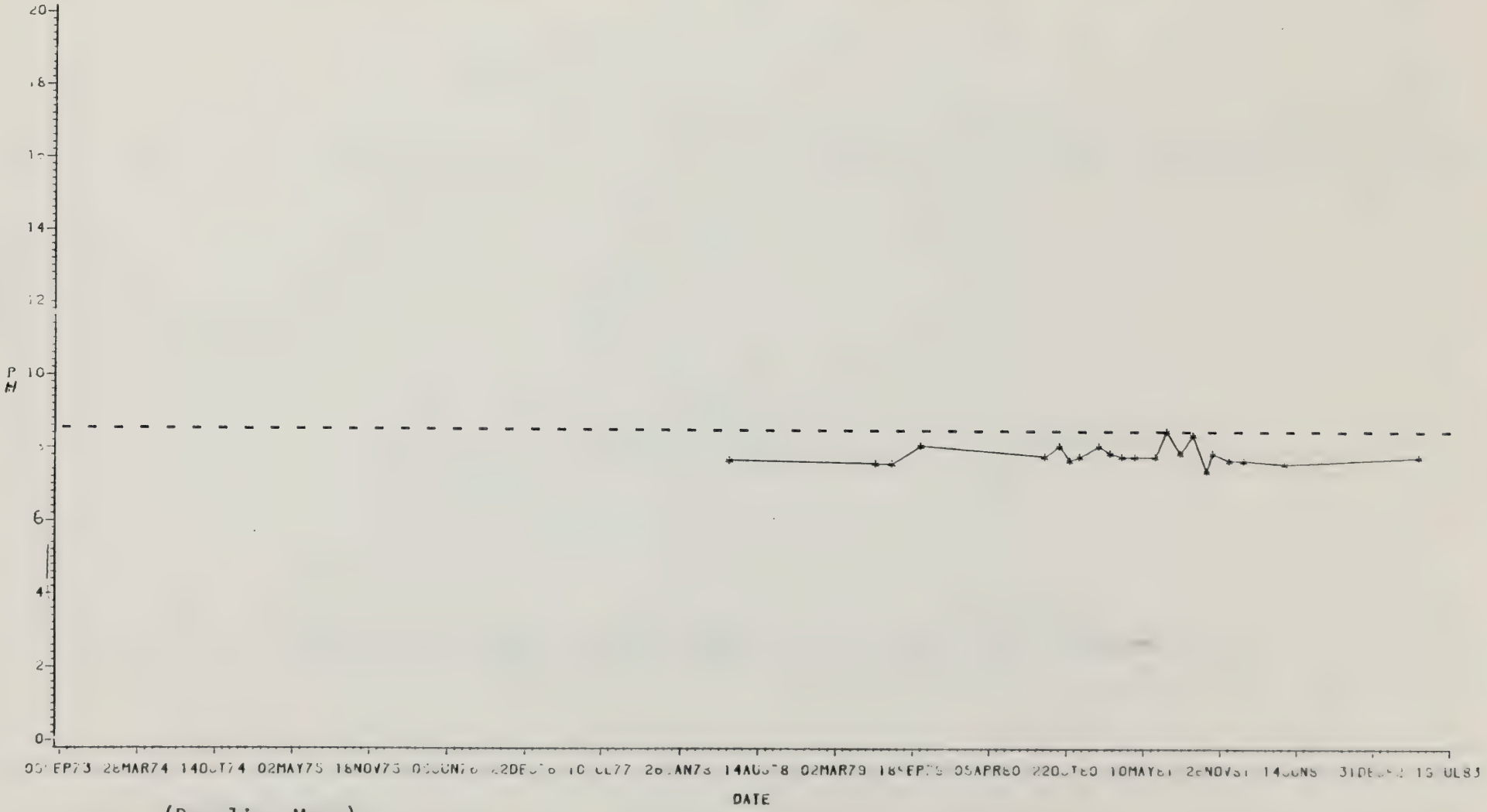
FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS



- - - - - (Baseline Mean)
8.2 (Units)

FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

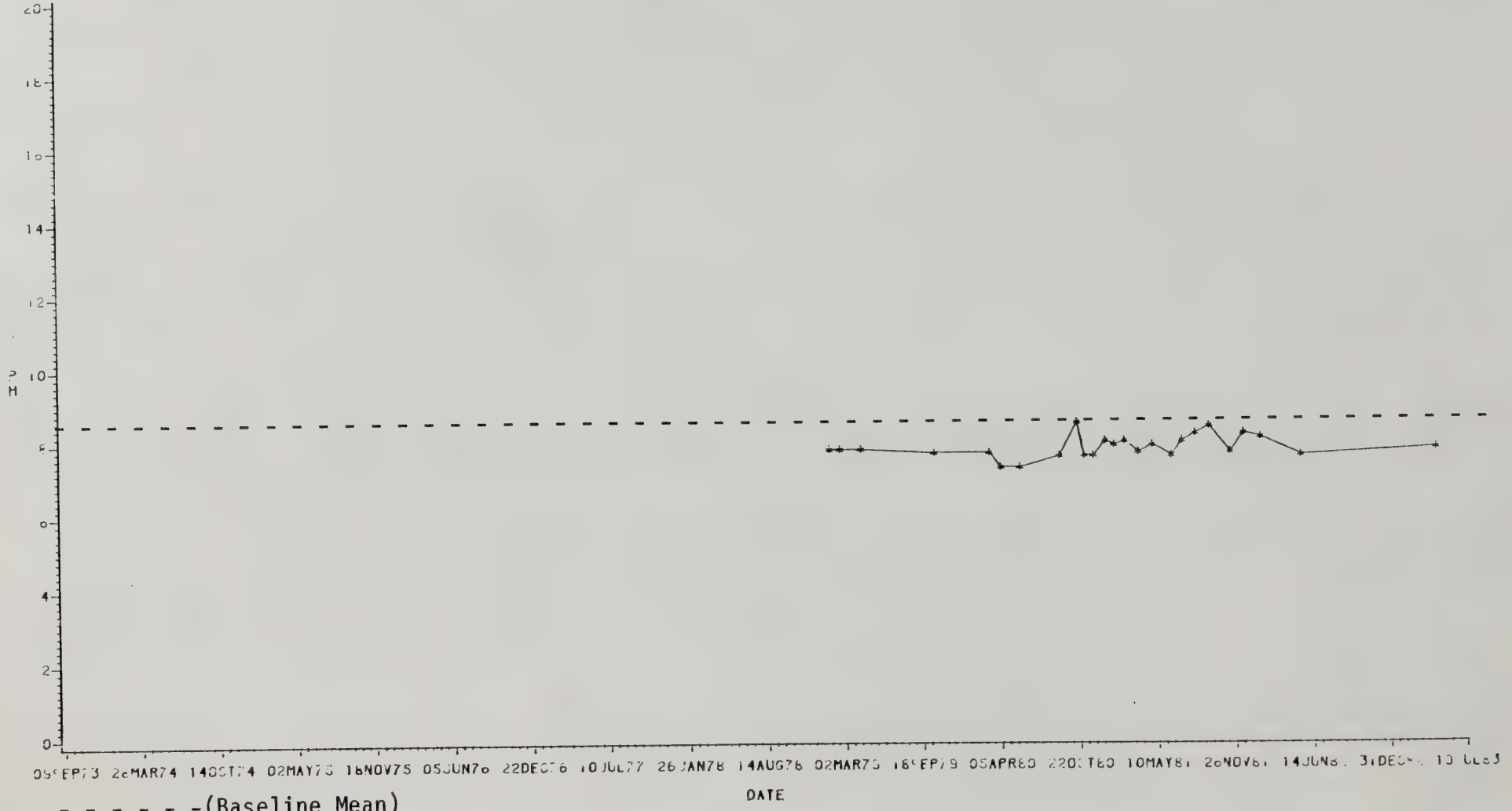
LOC=WA07



- - - - -(Baseline Mean)
8.2 (Units)

FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

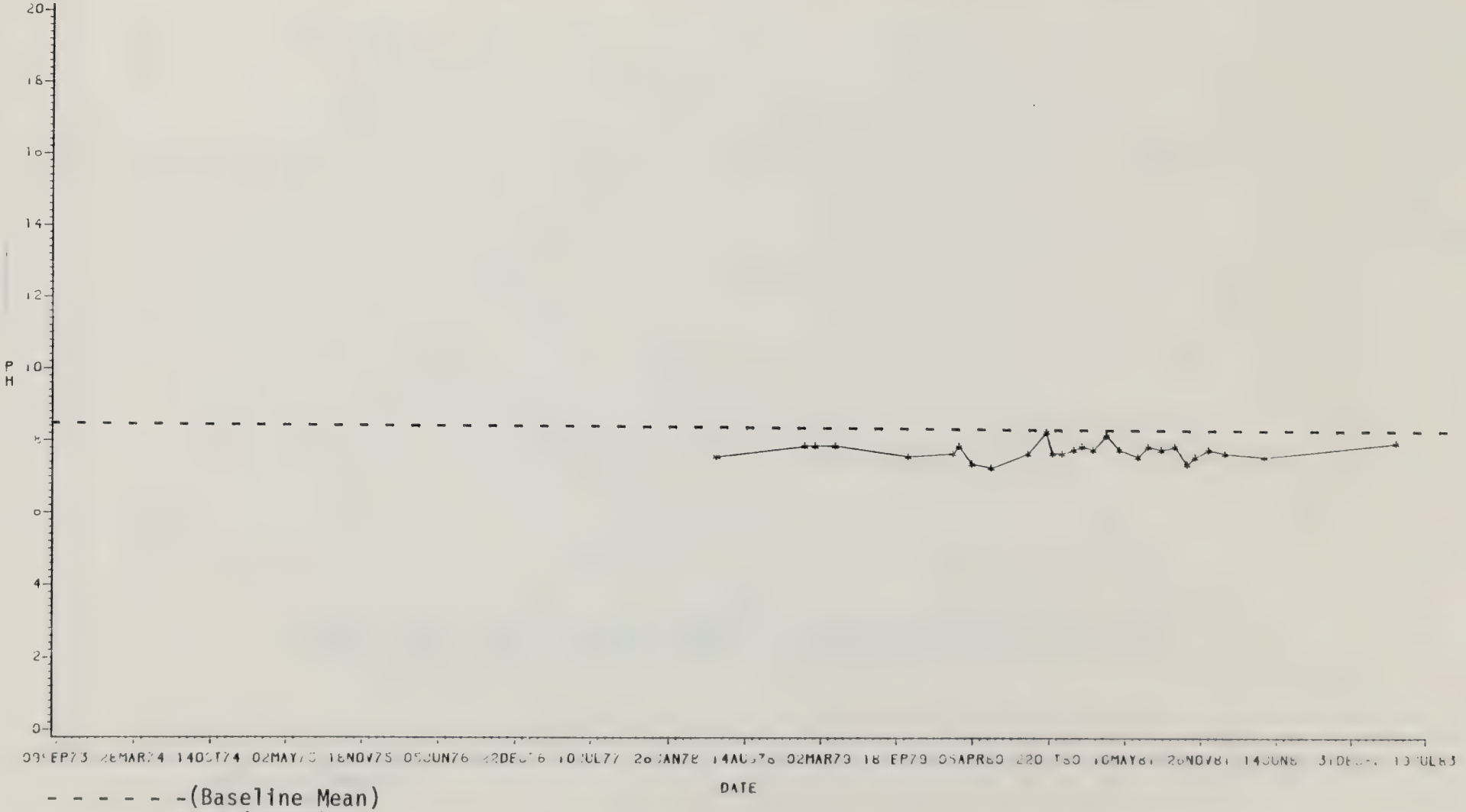
LOCATION



- - - - - -(Baseline Mean)
8.2 (Units)

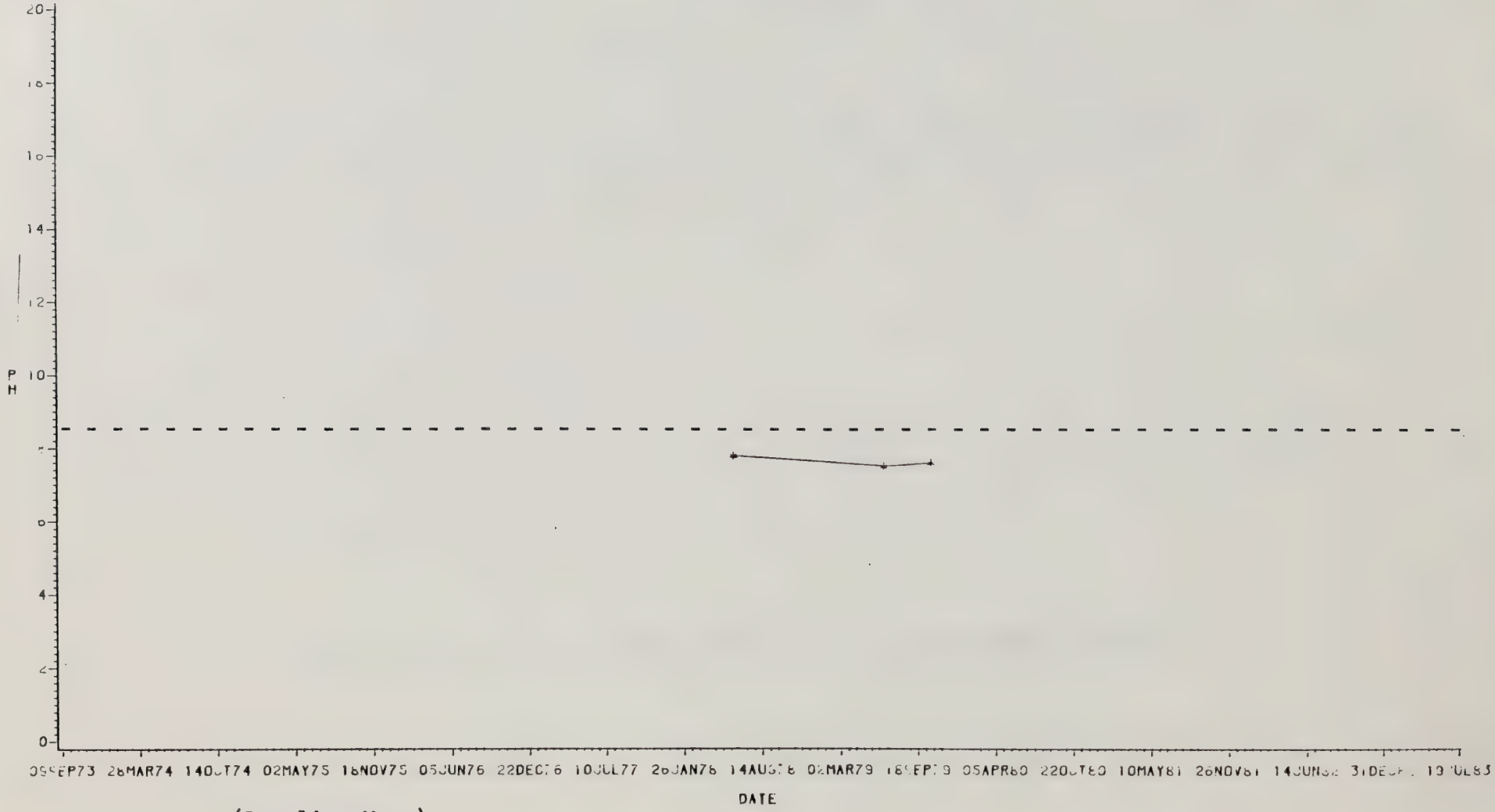
FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

LG.=WAGB



FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

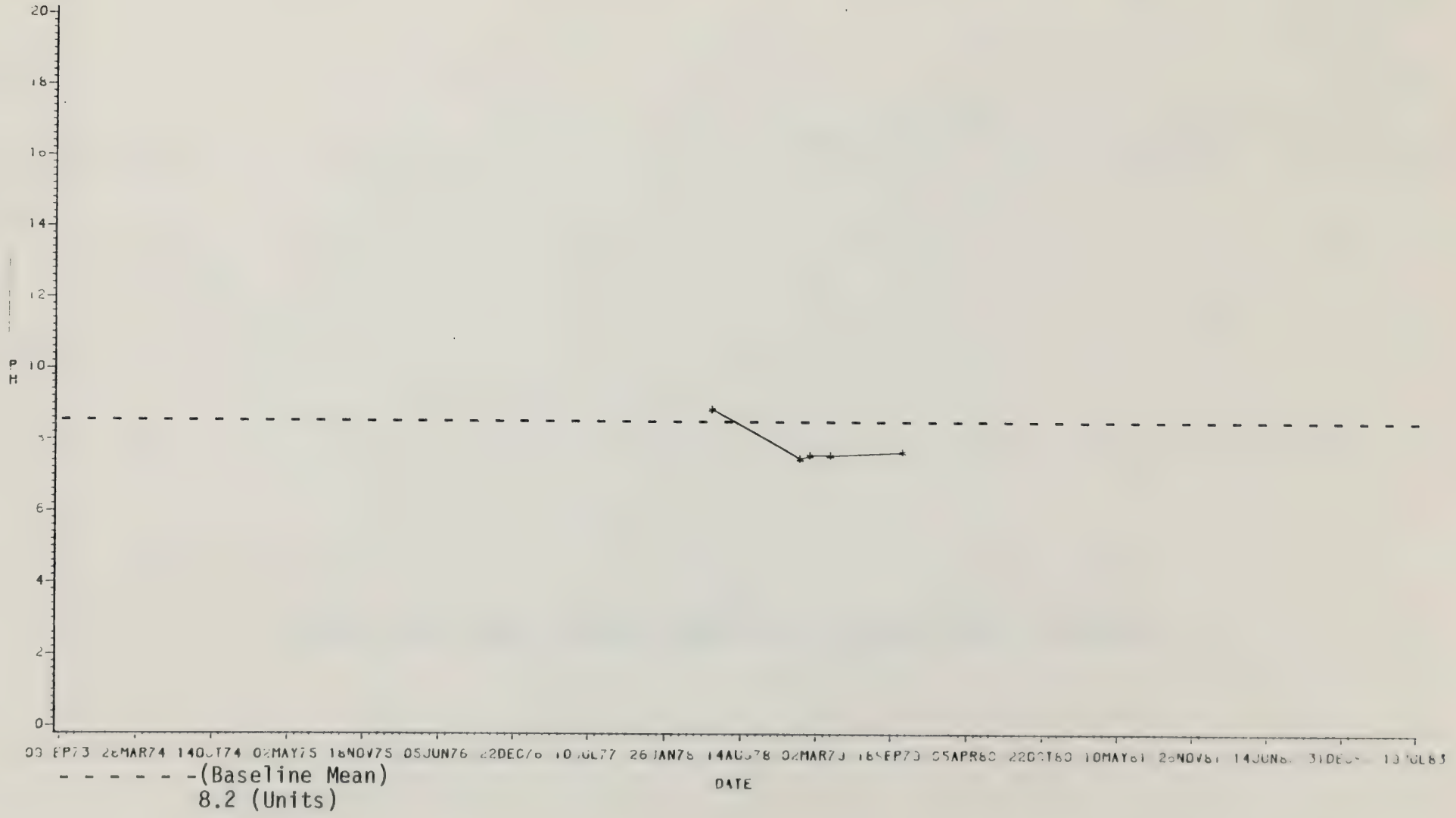
LOC=WA10



- - - - - - -(Baseline Mean)
8.2 (Units)

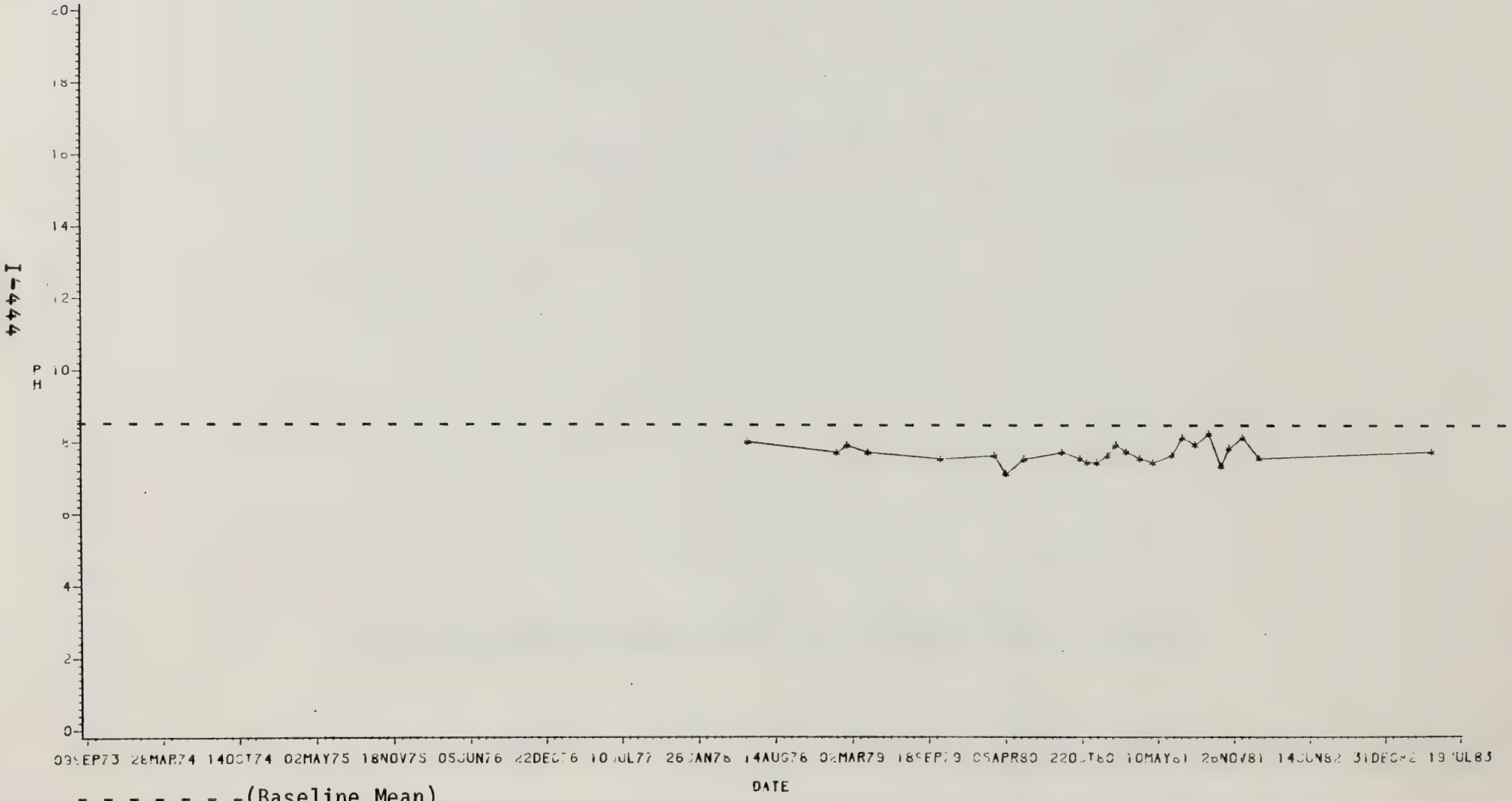
FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

LOS-WA11



FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA12

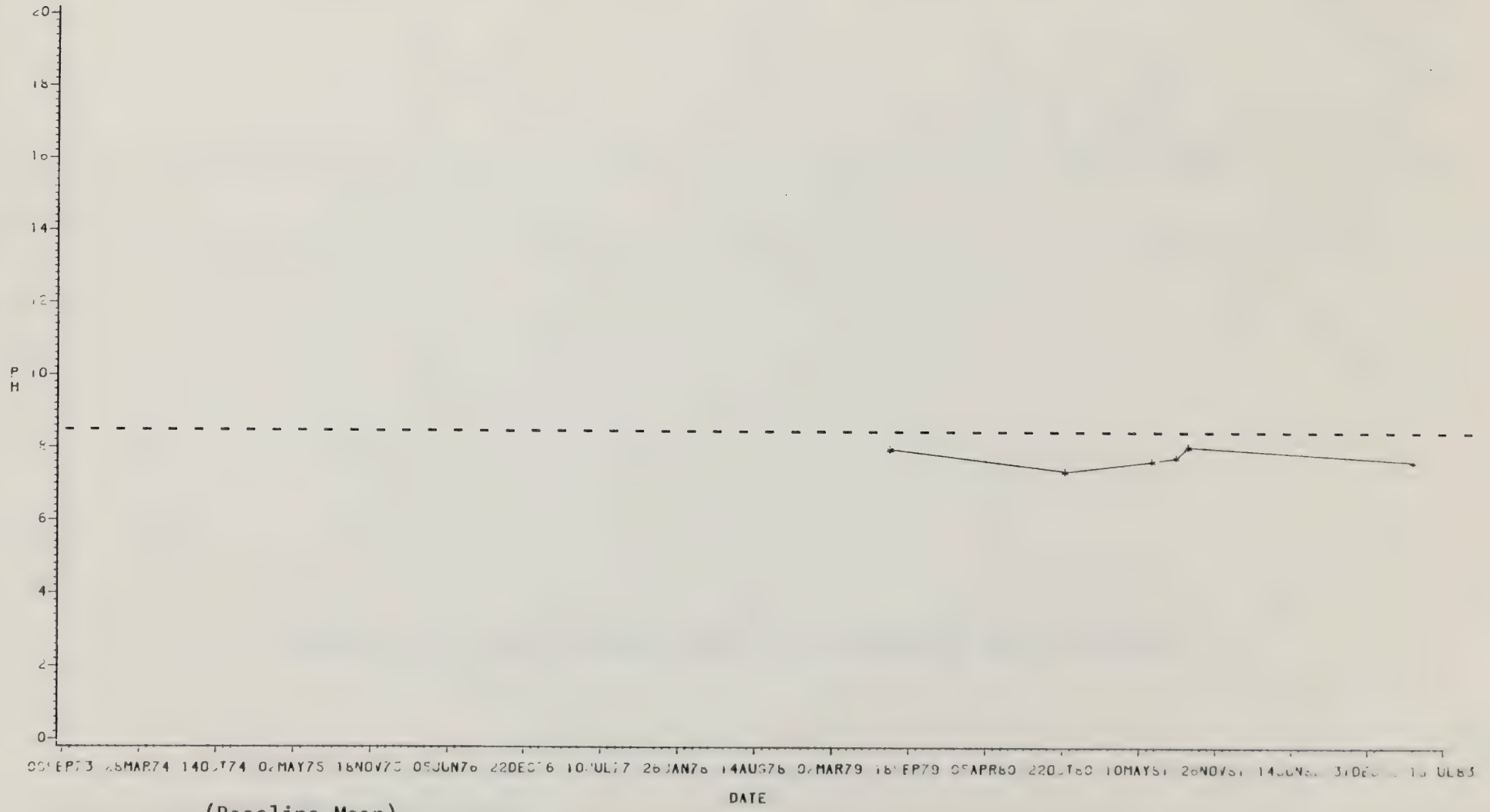


I-444

- - - - - - -(Baseline Mean)
8.2 (Units)

FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

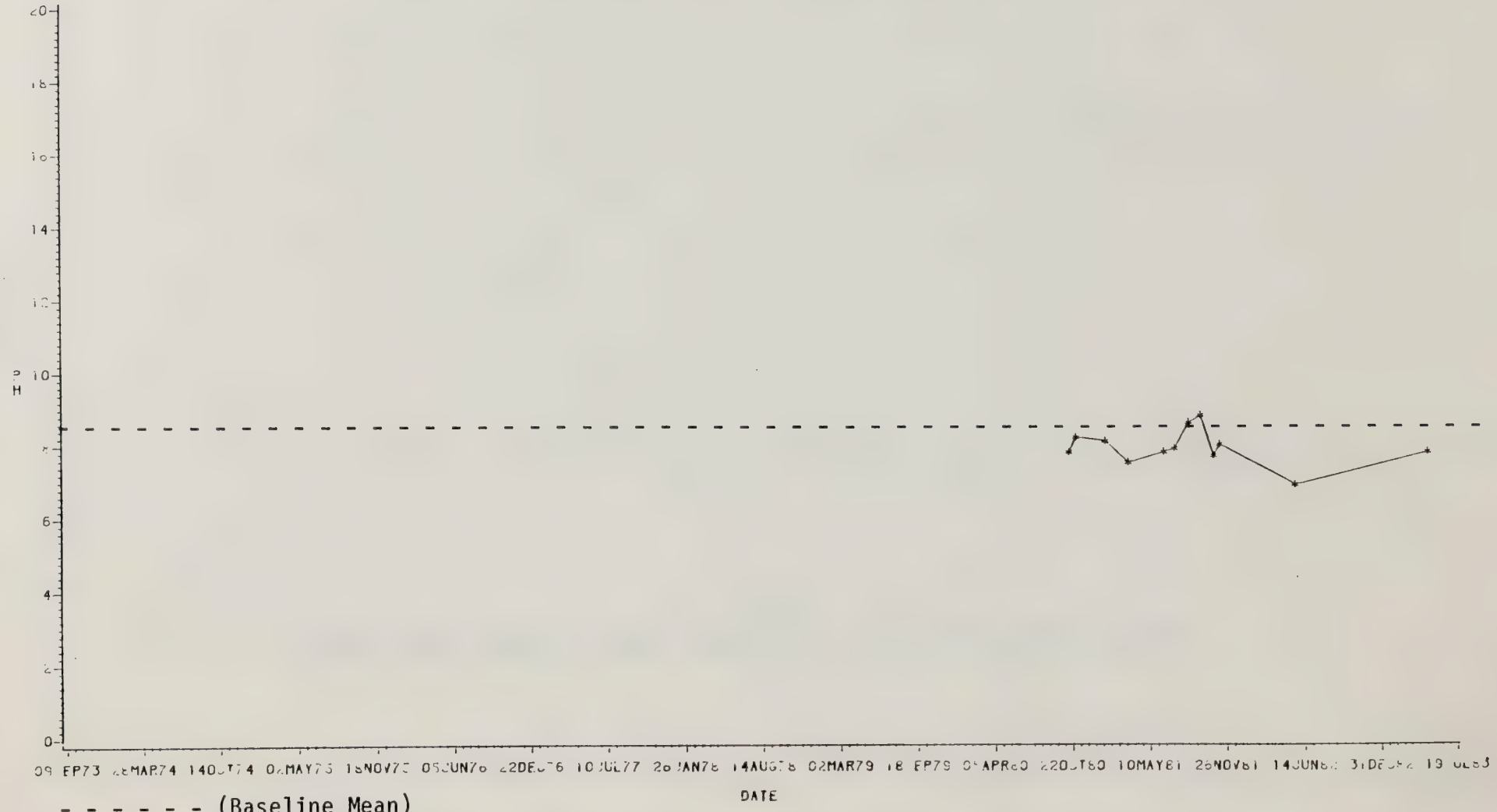
LOCATION



- - - - - - (Baseline Mean)
8.2 (Units)

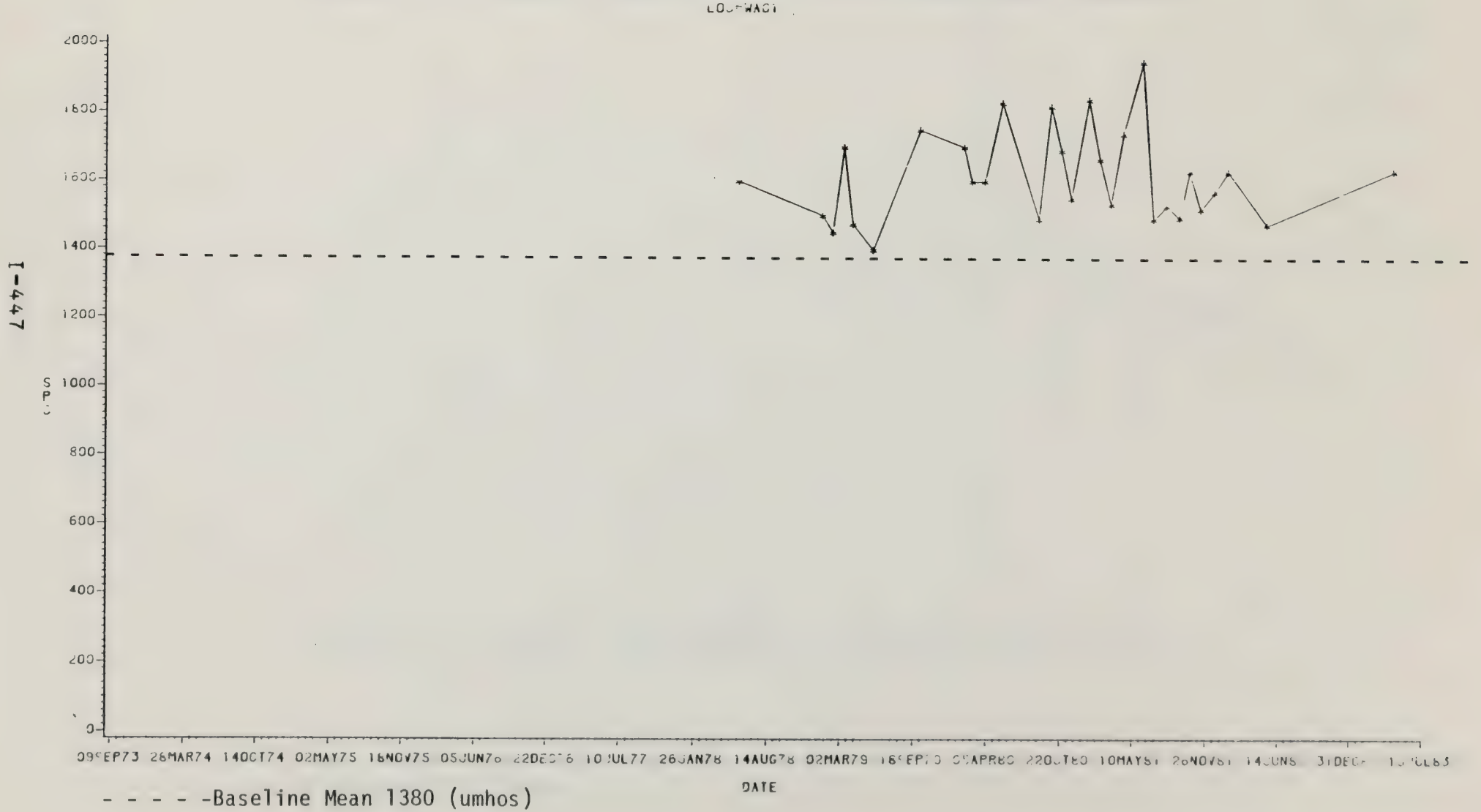
FIELD PH (UNITS) TIME SERIES OF ALLUVIAL WELL WATERS

LOCHWA50

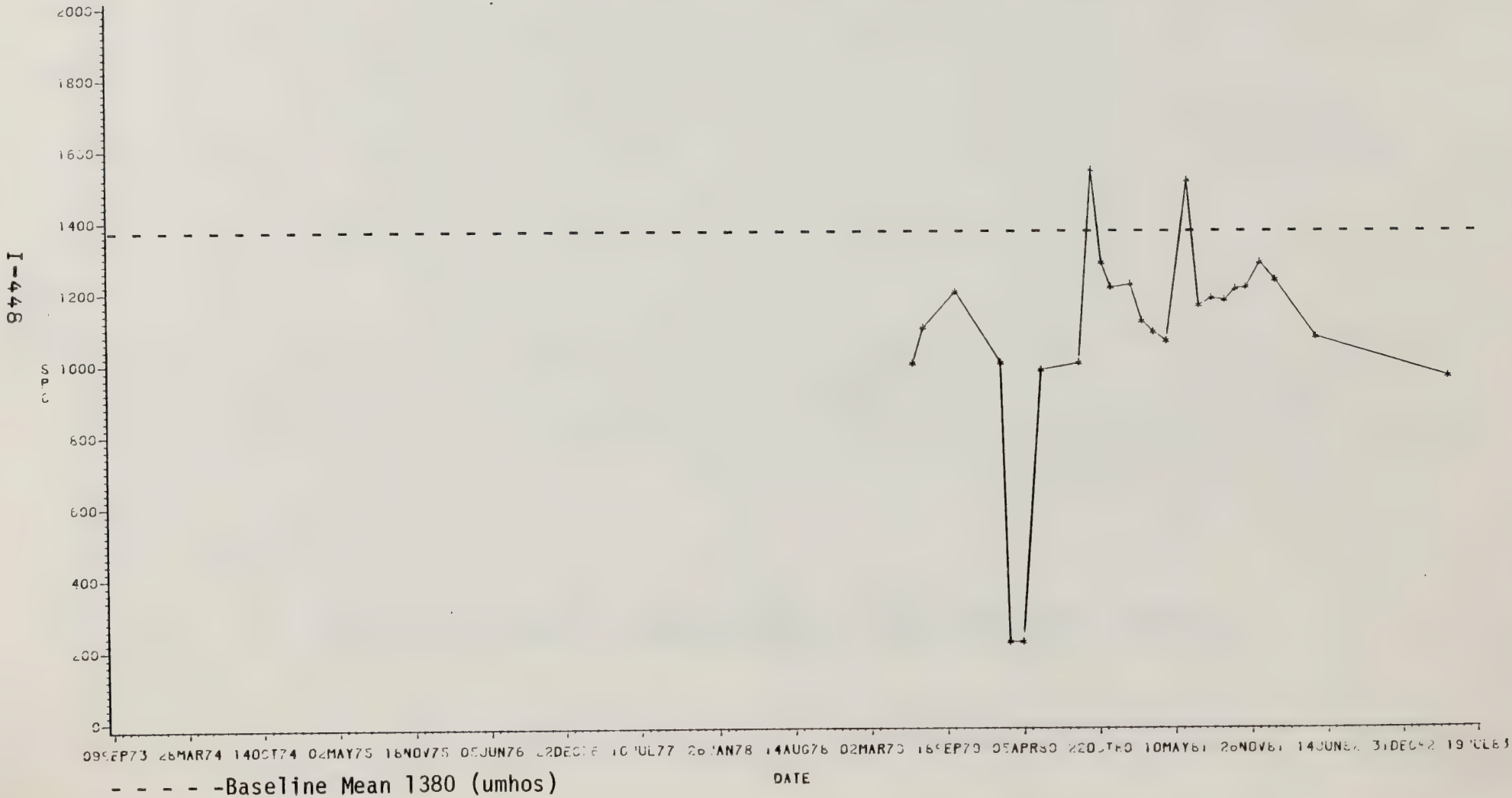


- - - - - - (Baseline Mean)
8.2 (Units)

FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

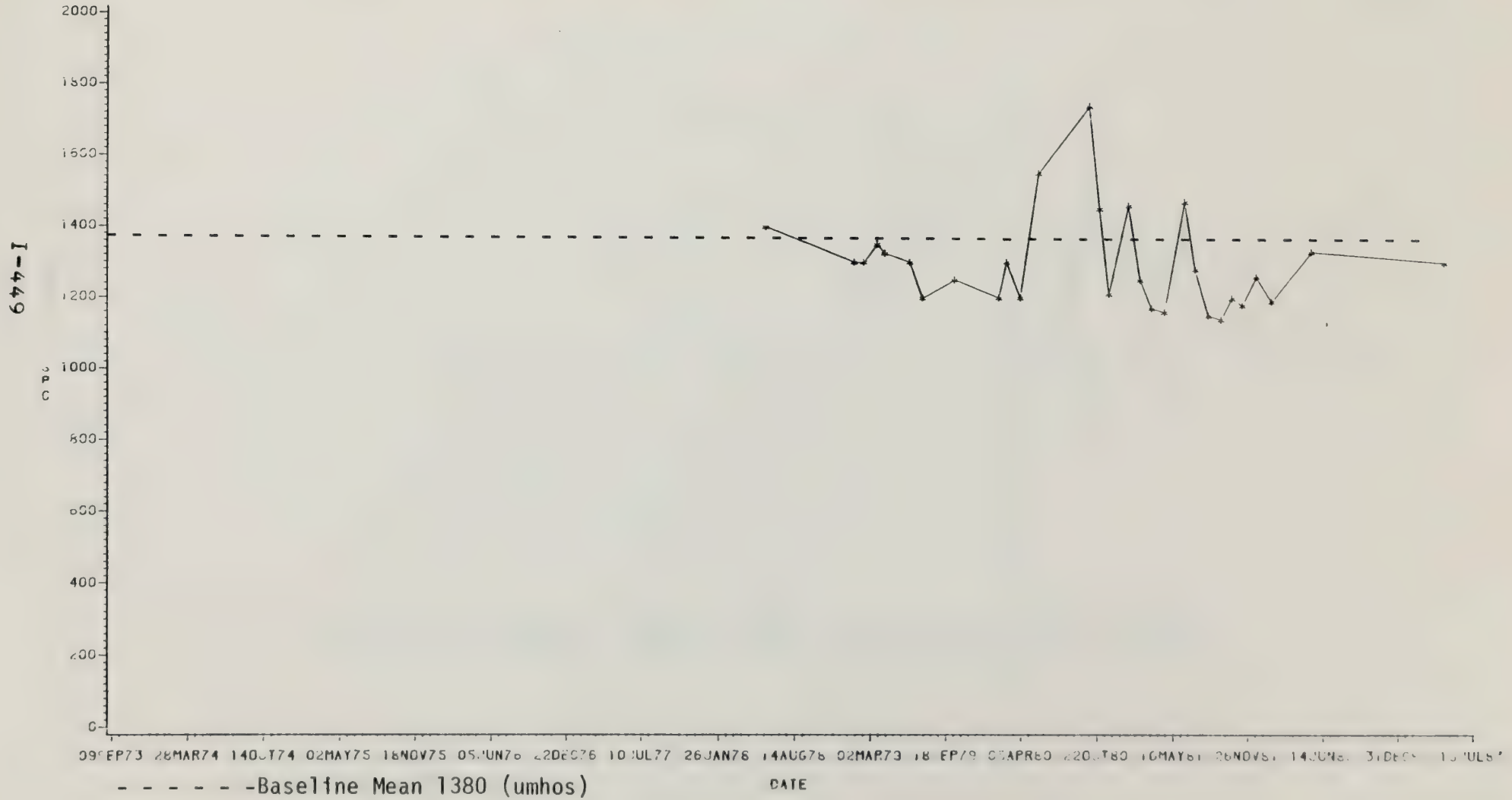


FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

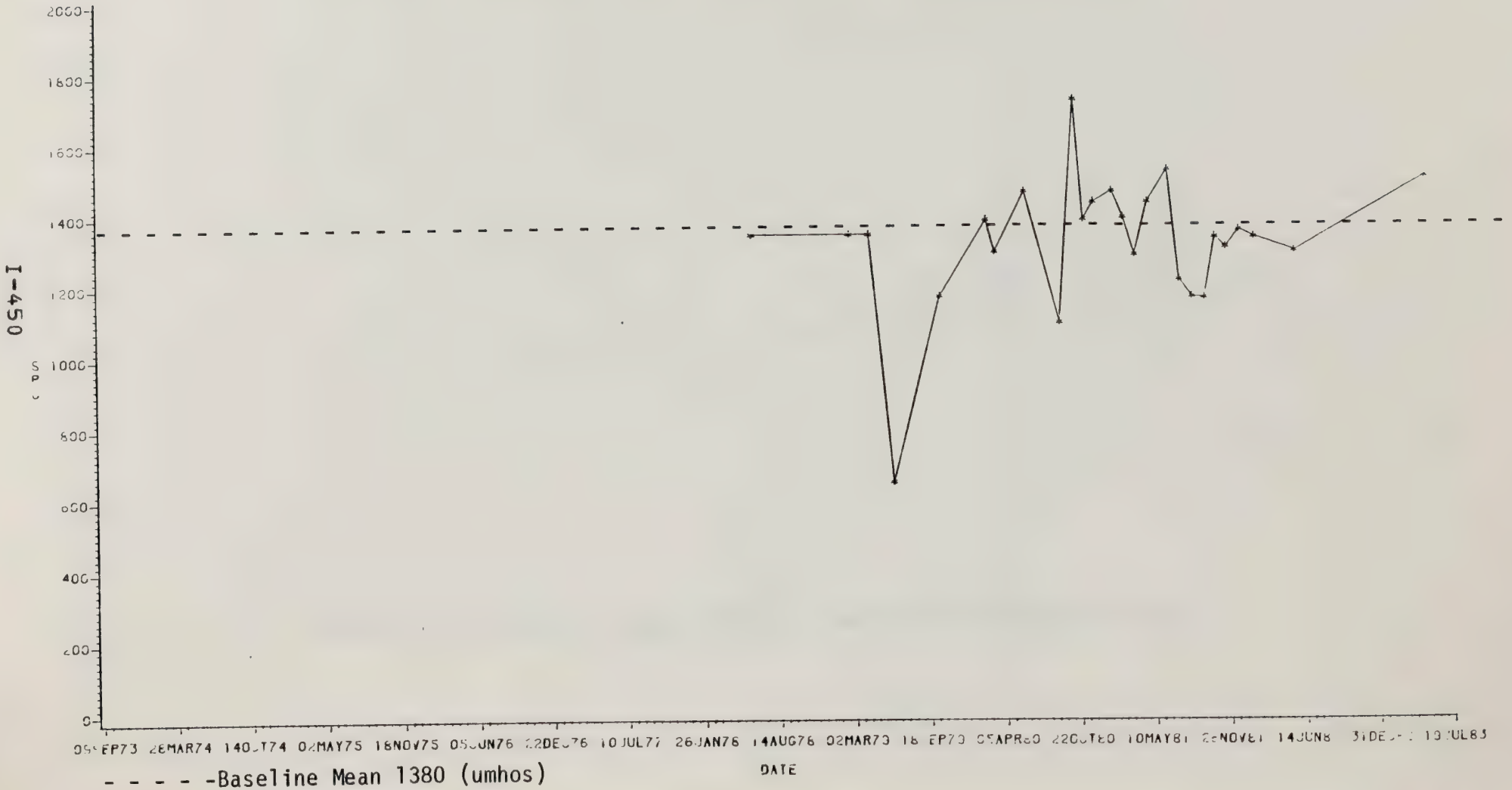


FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

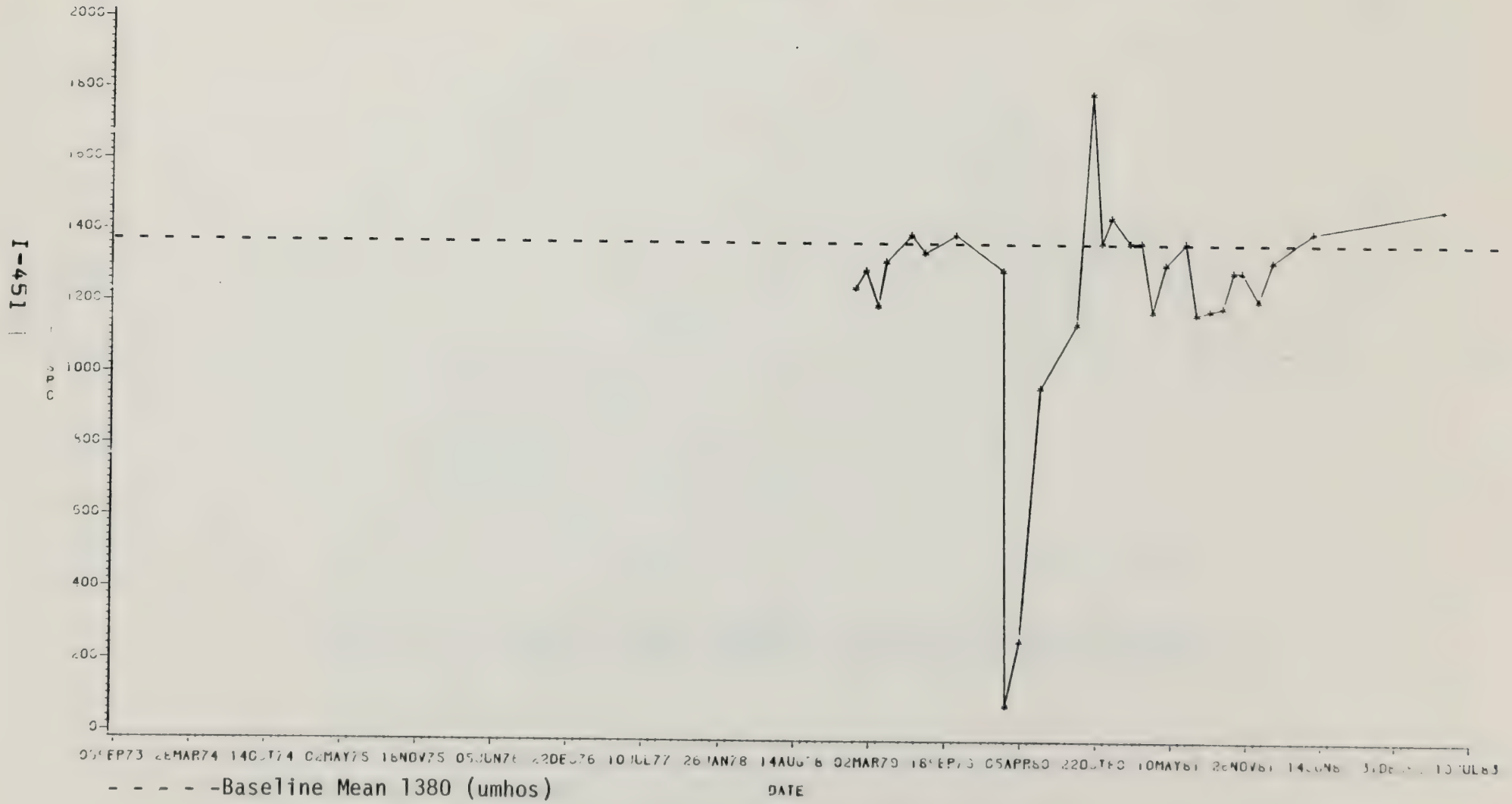
LOCATION



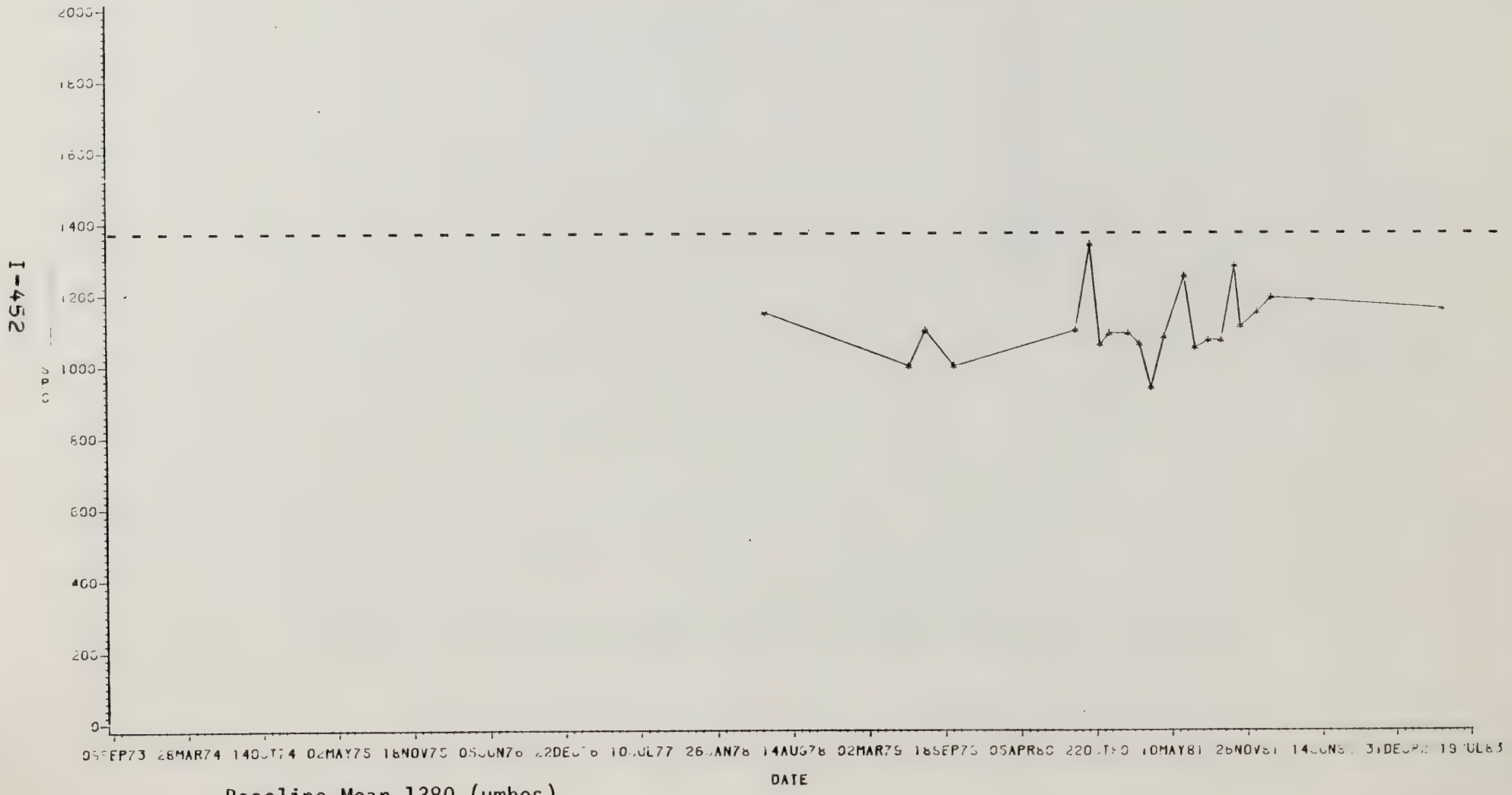
FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS



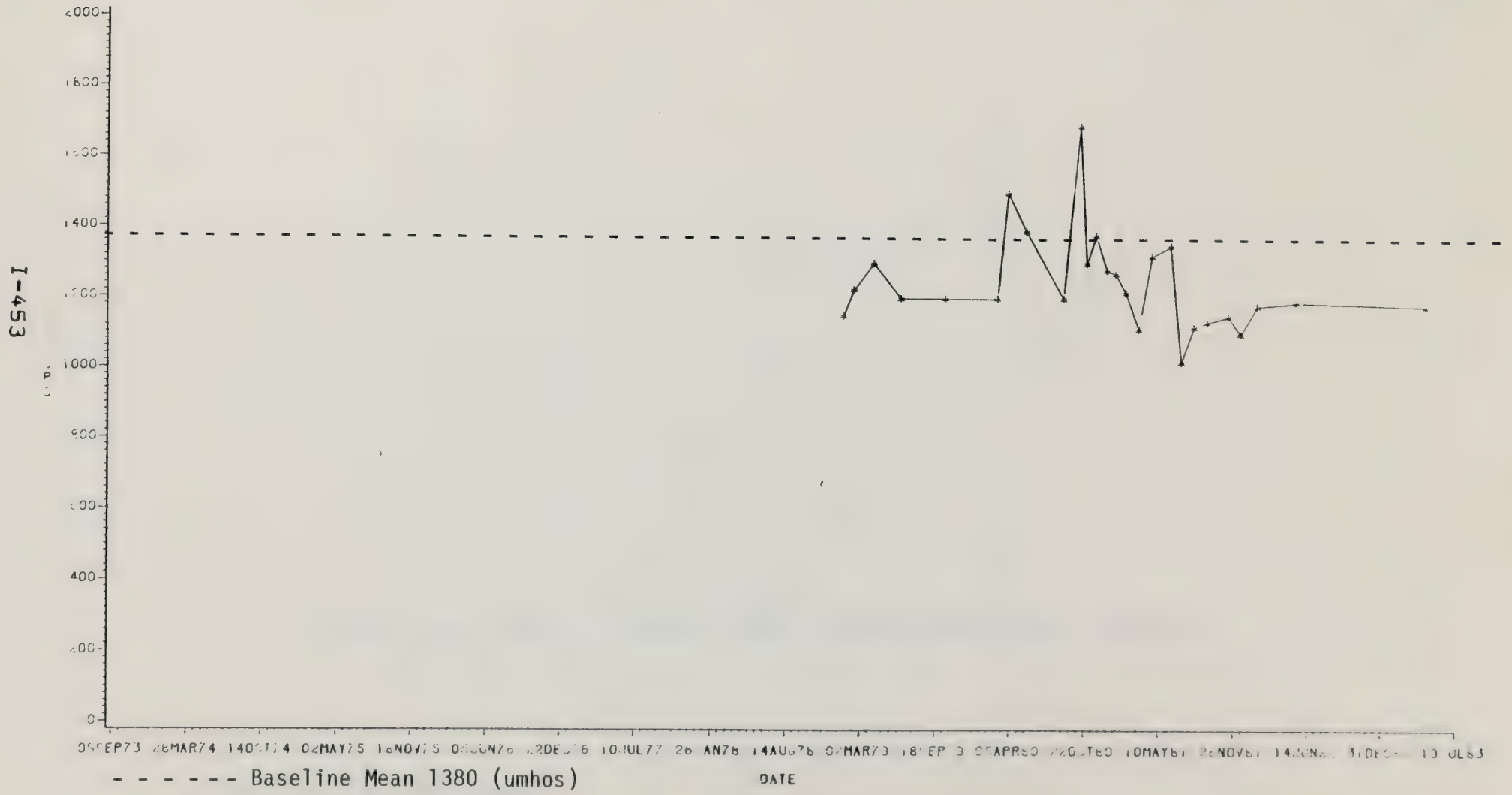
FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS



FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

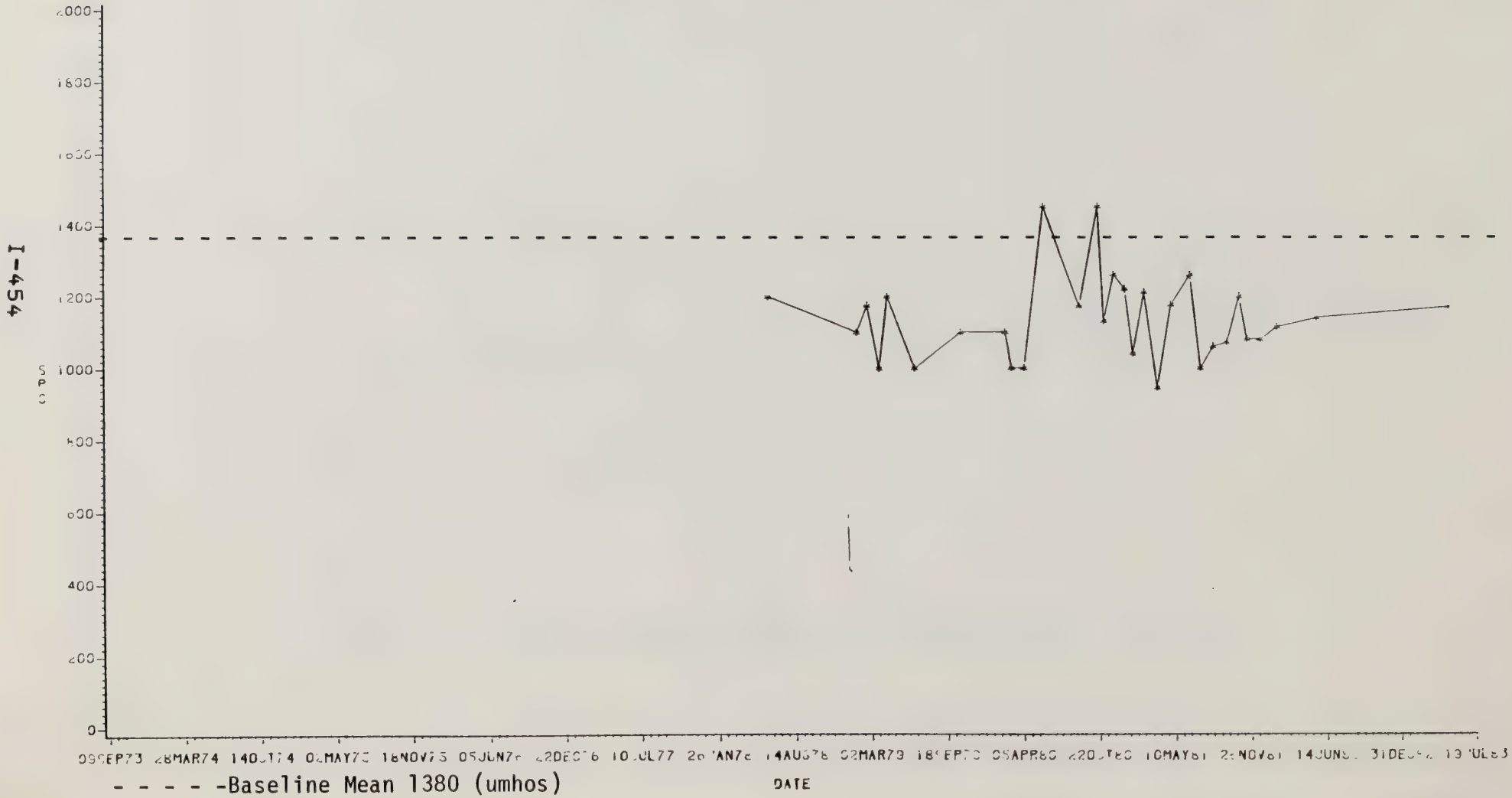


FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

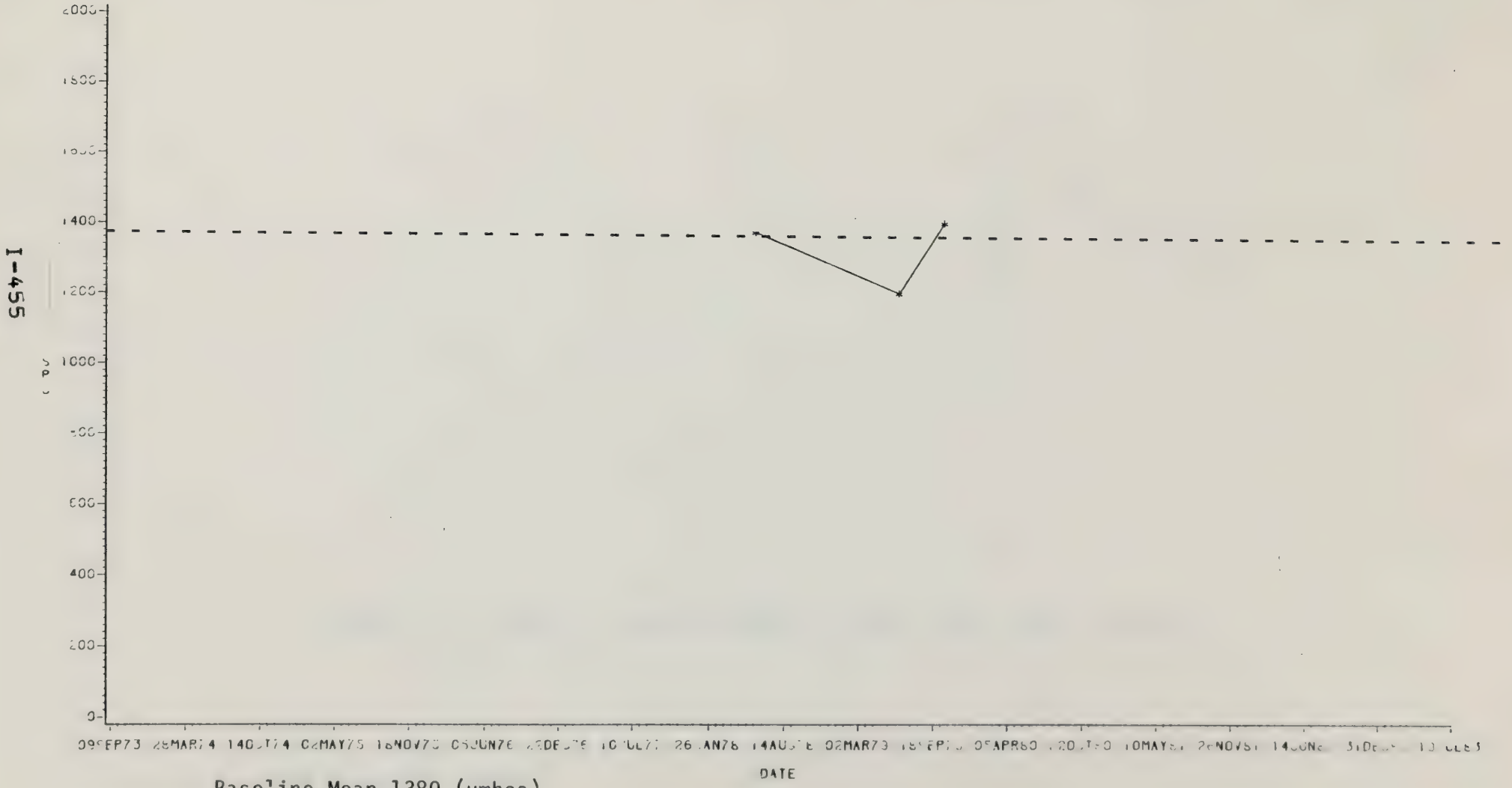


FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

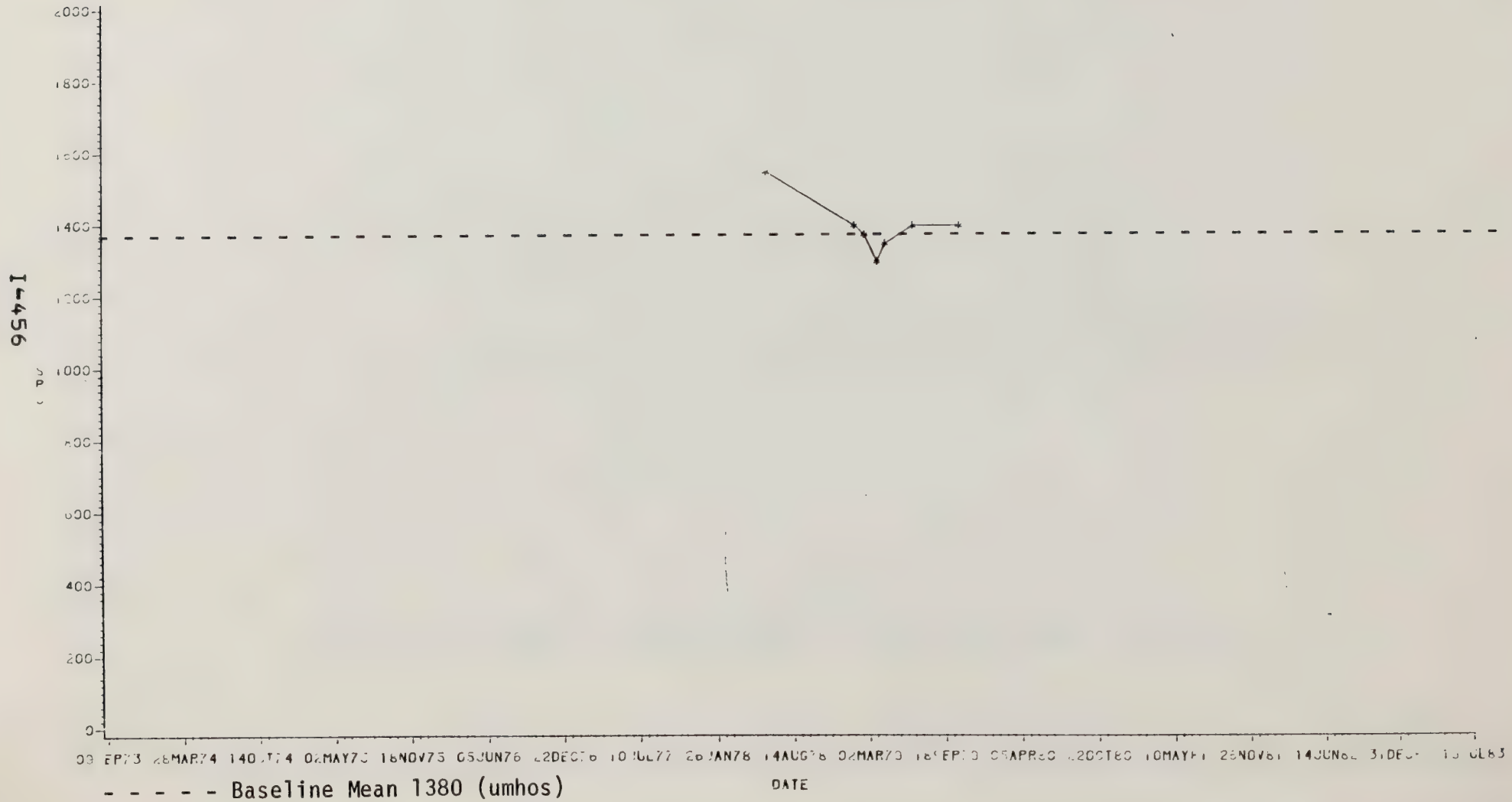
LOC=WA09



FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS



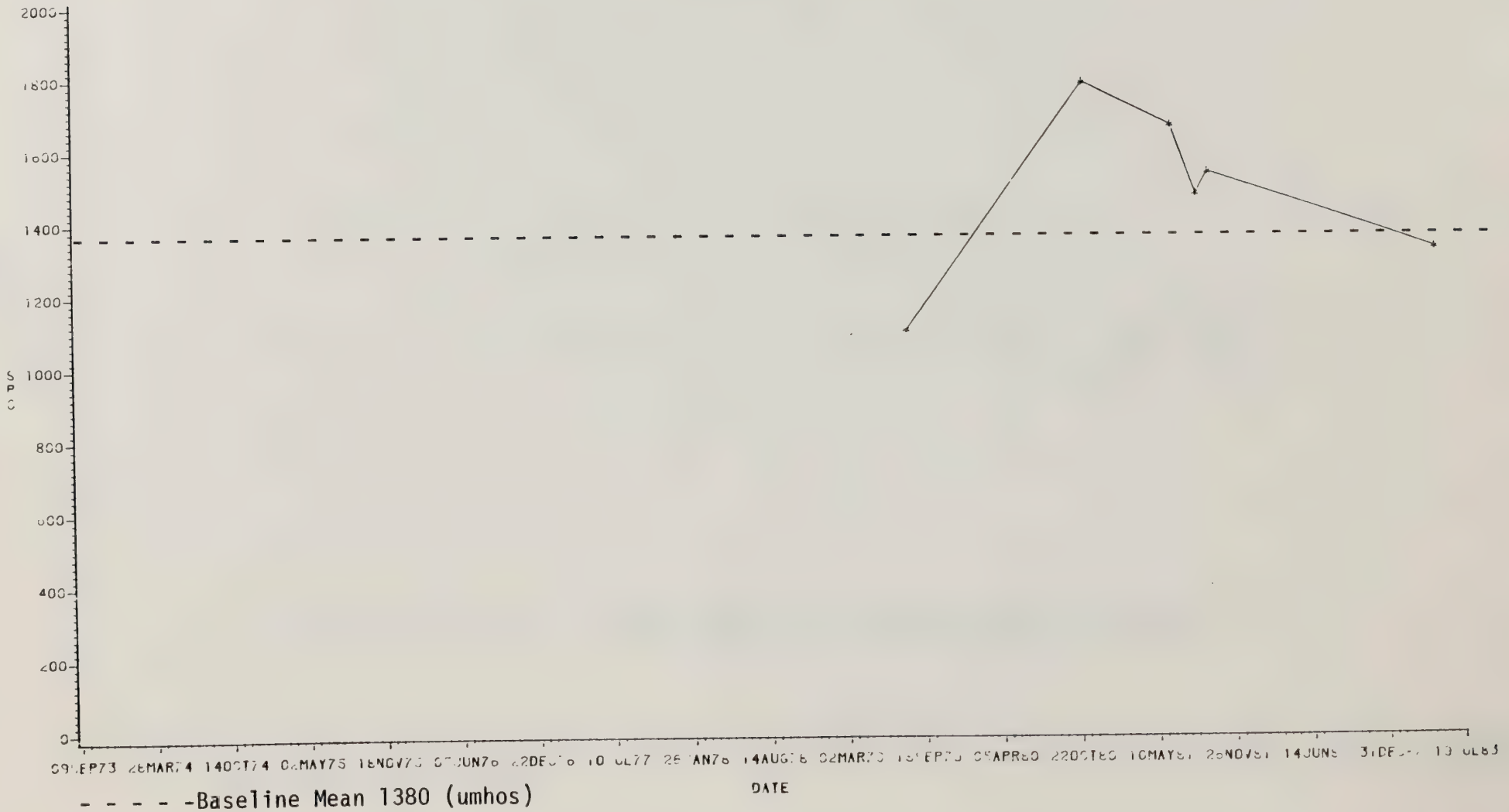
FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATER



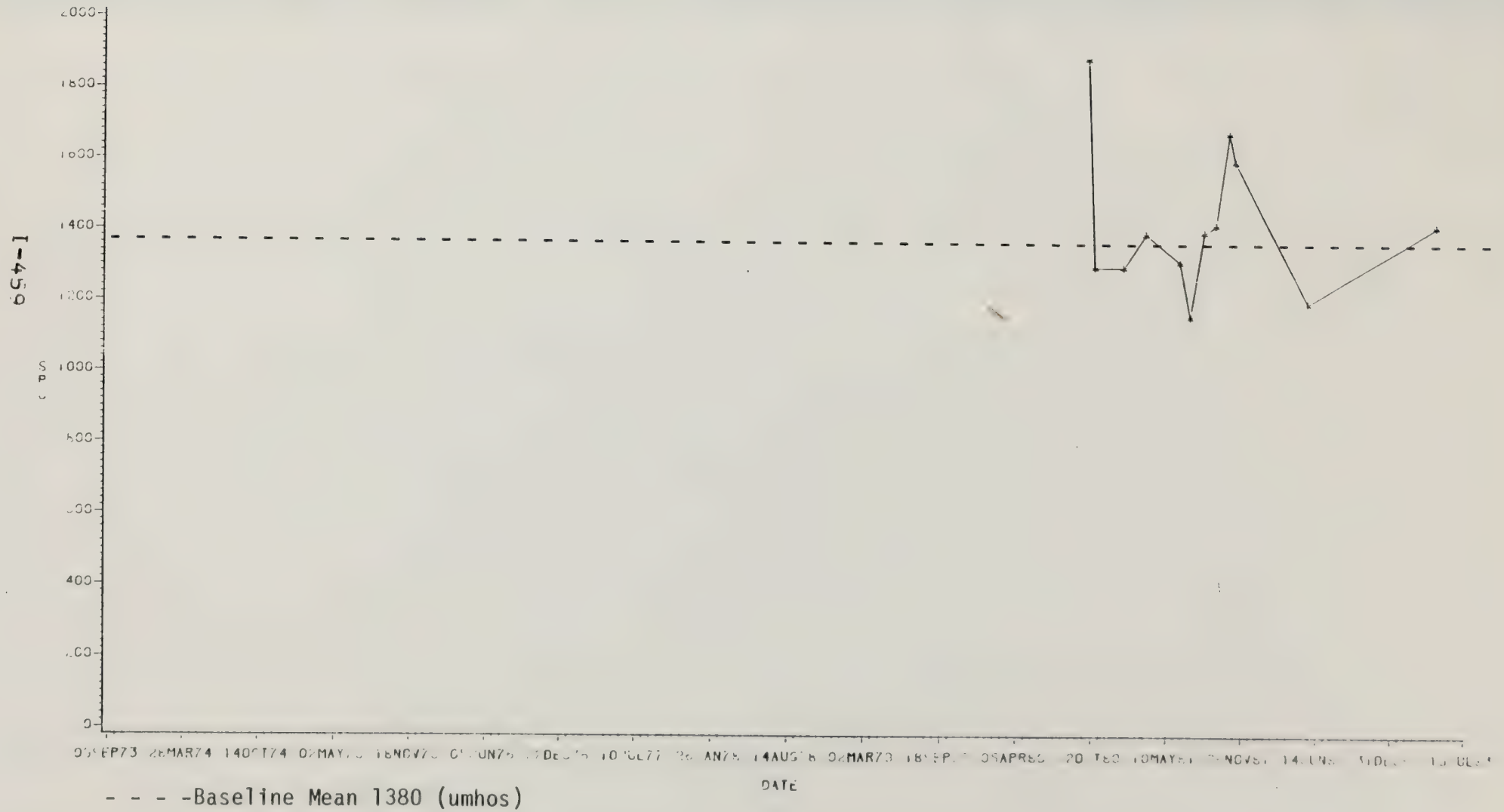
FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS

LOC=WA12

FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS



FIELD SPC (UMHOS) TIME SERIES OF ALLUVIAL WELL WATERS



BEDROCK
WELLS

1.2.2.4 Bedrock Wells

During the Interim Monitoring Program water quality samples are taken quarterly or semiannually, depending on the well, for the following parameters.

TABLE 1.2.2.4-1

Parameters Analyzed During IMP

Field Measurements: pH, temperature, dissolved oxygen, conductivity.

As	Pb	K	Ba
Mo	Ca	HCO_3	CO_3
Cr	Cl	Mg	SO_4
Cu	Li	Fluoride	TDS
Fe	Al	B	Oil and Grease
Hg	Sr	BOC	SiO_2
Mn	Se	Phenols	Cn
Radiology	Zn	Ammonia	Total phosphate
Na	COD	Hardness	
Br	Alkalinity	NO_3	

Field measurements for pH, temperature, specific conductance and field fluoride were taken at WD90 (SG-10) in February and May 1983. See Table 1.2.2.4-2.

Samples were taken in February and April 1983 at WX44 (AT-1C-3). The Bar-Cad sampler was found to be malfunctioning in April, therefore that sample should be classified as an outlier. Analysis is to be done on 1982 and 1983 samples to check for other outliers resulting from the malfunction.

An unscheduled sample was taken in February 1983 at WX32 (32X12) and analyzed for mercury (mg/l). See Tables 1.2.2.4-3 and 1.2.2.4-4 for field and lab analyses of these two upper aquifer wells. A sample was taken in February 1983 of lower aquifer well WY45 (AT-1C-1). Refer to Tables 1.2.2.4-5 and 1.2.2.4-6 consecutively.

TABLE 1.2.2.4-2

CB-TRACT
FIELD MEASUREMENTS
BEDROCK MONITORING WELLS

WELL	YR	MO	DY	PH (UNITS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (UMHOS)	FIELD FLUORIDE (MG/L)
WD90	83	1	11				
		2	22				
			25	8.8	12.0	2380.0	.3
		3	26				
		4	27				
		5	24	8.2	10.7	4470.0	.3

TABLE 1.2.2.4-3

CB-TRACT
QUARTER AND SEMIANNUAL FIELD MEASUREMENTS
UPPER AQUIFER BEDROCK WELLS

WELL	YR	MO	PH PH UNIT	SPECIFIC CONDUCTANCE (UMHOS/CM)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
WX32	83	2				
WX44	83	2	8.0	1330.0	12.0	
		4	8.7	2050.0	12.0	

TABLE 1.2.2.4-4

CB-TRACT
QUARTER AND SEMIANNUAL WATER QUALITY ANALYSES
UPPER AQUIFER BEDROCK WELLS

WELL	YR	MO	MO (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WX32	83	2													
WX44	83	2	-.020	.20	-10.0	-.0010	.8	.30	980.0	7.3	190.0	14.0	-50.0	-.020	.040
		4	-.020	-.50	14.0	.0050	.2	-.10	1000.0	8.4	250.0	1.0	-50.0	-.020	-.020

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.4-4 (Contd)

CB-TRACT
QUARTER AND SEMIANNUAL WATER QUALITY ANALYSES
UPPER AQUIFER BEDROCK WELLS

WELL	YR	MO	TOTAL ALK (MG/L CACO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CACO3)	CO3 (MG/L CACO3)	BR (MG/L)	HARDNESS (MG/L CACO3)	NA (MG/L)	MG (MG/L)	CA (MG/L)
WX32	83	2												
WX44	83	2	610.0	-.100	.600	-.020	-.50	600.0	10.0	.900	380.0	230.0	63.0	47.0
		4	400.0	-.100	.200	-.020	-.50	400.0	-1.0	.600	360.0	280.0	56.0	53.0

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.4-4 (Contd)

CB-TRACT
QUARTER AND SEMIANNUALWATER QUALITY ANALYSES
UPPER AQUIFER BEDROCK WELLS

WELL	YR	MO	SIO2 (MG/L)	CN (MG/L)	TOTAL PHOSPHATE (MG/L)	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WX32	83	2					-.00020								
WX44	83	2	3.0		.03		-.00020	.200	-.010	-.020	.040	.05	.070	.50	5.40
		4	.4		.02		-.00020	-.010	-.010	-.020	.040	.05	-.020	.20	4.20

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.4-5

CB-TRACT
QUARTER AND SEMIANNUAL FIELD MEASUREMENTS
LOWER AQUIFER BEDROCK WELLS

WELL	YR	MO	PH PH UNIT	SPECIFIC CONDUCTANCE (UMHOS/CM)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
WY45	83	2	8.9	1210.0	13.0	

TABLE 1.2.2.4-6

CB-TRACT
QUARTER AND SEMIANNUAL WATER QUALITY ANALYSES
LOWER AQUIFER BEDROCK WELLS

WELL	YR	MO	MO (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WY45	83	2	-.020	.20	21.0	.0080	10.0	.70	800.0	.7	5.0	8.0	-50.0	-.020	-.020

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.4-6 (Contd)

CB-TRACT
QUARTER AND SEMIANNUALWATER QUALITY ANALYSES
LOWER AQUIFER BEDROCK WELLS

WELL	YR	MO	SIO2 (MG/L)	CN (MG/L)	TOTAL PHOSPHATE (MG/L)	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WY45	83	2	1.1				-.00020	.100	-.010	-.020	.060	-.05	.200	.20	27.00

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.4-6 (Contd)

CB-TRACT
QUARTER AND SEMIANNUAL WATER QUALITY ANALYSES
LOWER AQUIFER BEDROCK WELLS

WELL	YR	MO	TOTAL ALK (MG/L CACO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CACO3)	CO3 (MG/L CACO3)	BR (MG/L)	HARDNESS (MG/L CACO3)	NA (MG/L)	MG (MG/L)	CA (MG/L)
WY45	83	2	700.0	-.100	.900	-.020	.70	640.0	60.0	.400	11.0	380.0	1.6	1.7

NOTE: - INDICATES LESS THAN

IMPOUNDMENTS/
LAND APPLICATION/
REINJECTION/DISCHARGE

1.2.2.5 Impoundments/Land Application/Reinjection/ Discharge

Water samples were taken at A/B discharge point (WN40), on weekly, monthly and quarterly intervals during January through May 1983. Weekly and monthly sampling frequencies are a requirement of our NPDES discharge permit. Data tables of these samples are reported in Table 1.2.2.5-1 and 1.2.2.5-2.

During the interim period, quarterly water samples for field and lab analyses are required by the Oil Shale Office. These samples vary slightly from semiannual samples required during C-b Tract's development phase. Parameters analyzed are total alkalinity, Al, ammonia, As, Ba, HCO_3, CO_3, BR, hardness, Na, Mg, Ca, Mo, NO_3, oil and grease, phenols, K, B, total dissolved solids, Sr, SO_4, Cl, COD, Cr, Cu, SiO_2, cyanide, Hg, Se, Ag, Zn, Pb, Li, Mn, Fe, F, DOC, suspended solids, Co and V. Results of two scheduled samples taken in January and April 1983 are reported in Table 1.2.2.5-3. Field samples of pH, specific conductance, and temperature were taken when water samples were collected for quarterly analyses. See Table 1.2.2.5-4.

Monthly field samples were taken at Ponds A/B and C seepage monitoring wells (WW13 and WW22) in January through May 1983 while a semiannual field sample was collected in May 1983 at the leachate shale pile monitoring well (WW32). See data Table 1.2.2.5-5.

A semiannual water sample was collected at the two pond seepage monitoring wells and were analyzed for the same parameters listed above, excluding DOC, suspended solids, Co and V. Field and lab analyses results are reported in Tables 1.2.2.5-6 and 1.2.2.5-7.

TABLE 1.2.2.5-1

CB-TRACT

NPDES WATER QUALITY SAMPLES
WEEKLY ANALYSIS

LOC	YR	MO	DY	LAB TOTL SUSS SOLIDS (MG/L)	TOTAL DISSOLVED SOLIDS (MG/L)	TOTAL F (MG/L)	TOTAL B (MG/L)	AMMONIA AS N (MG/L)	TOTAL PHENOL (MG/L)	AL (MG/L)	TOTAL FE (MG/L)	OIL AND GREASE (MG/L)
WN40	83	1	5									
			13	-10.0	1300.0	25.00	.80	.50	-.001	-.1	-.02	-10
			20	-10.0	1300.0	23.00	.90	.50	-.001	-.1	-.02	-10
			27	-10.0	1300.0	23.00	.40	.40	-.001	-.1	-.02	-10
		2	3	-10.0	1400.0	25.00	.90	.50	-.001	-.1	-.02	-10
			10	11.0	1300.0	25.00	.70	.50	-.001	-.1	.07	-10
			17	11.0	1300.0	26.00	1.00	.40	-.001	-.1	.06	-10
			24	-10.0	1300.0	27.00	1.40	.30	-.001	-.1	.10	-10
		3	3	10.0	1300.0	22.00	.80	.40	-.001	.1	.20	-10
			17	-10.0	1300.0	22.00	.50	.20	-.001	.2	.20	-10
			24	-10.0	1200.0	22.00	1.00	.20	-.001	-.1	.10	-10
			30	-10.0	1300.0	23.00	.70	.07	-.001	.1	.10	-10
		4	14	-10.0	1400.0	21.00	.30	-.04	-.001	-.1	.10	-10
			21	-10.0	1400.0	20.00	.60	.80	-.001	-.1	.10	-10
			27	-10.0	1400.0	18.00	.60	1.20	-.001	-.1	.02	-10
		5	5	-10.0	1300.0	16.00	.20	1.00	-.001	-.1	.09	-10
			12	-10.0	1400.0	27.00	.90	.20	.001	-.1	.07	-10
			19	-10.0	1400.0	23.00	.90	.40	-.001	-.1	.06	-10
			26	-10.0	1300.0	24.00	.90	.40	-.001	-.1	.04	-10

TABLE 1.2.2.5-2

CB-TRACT
NPDES WATER QUALITY SAMPLES
MONTHLY ANALYSIS

LOC	YR	MO	TOTAL CD (MG/L)	TOTAL CU (MG/L)	TOTAL HG (MG/L)	TOTAL AG (MG/L)	TOTAL ZN (MG/L)
WN40	83	1					
		2	-.01	-.02	-.00020	-.01	-.02
		3	-.01	.02	-.00020	-.01	-.02
		4					
		5	-.01	-.02	-.00020	-.01	-.02
WN41	83	1					
		2					
		3					
		4					
		5					
WN42	83	1					
		2					
		3					
		4					
		5					
WU02	83	1					
		2					
		3					
		4					
		5					

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.5-3

CB-TRACT
NPDES WATER QUALITY SAMPLE
QUARTERLY ANALYSES

LOCATION	YR	MO	TOTAL ALK (MG/L CACO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CACO3)	CO3 (MG/L CACO3)	BR (MG/L)	HARDNESS (MG/L CACO3)	NA (MG/L)	MG (MG/L)	CA (MG/L)
WN40	83	1	1100.0	-.100	-.040	.020	.80	1100.0	-1.0	-.100	34.0	610.0	4.6	5.8
		3	1100.0	-.100	.200	-.020	.90	1000.0	100.0			680.0	5.0	4.5
		4	1200.0	-.100	.040	-.020	1.30	1100.0	100.0	.500	43.0	610.0	6.2	7.1

- INDICATES LESS THAN

TABLE 1.2.2.5-3 (Contd)

CB-TRACT
NPDES WATER QUALITY SAMPLE
QUARTERLY ANALYSES

LOCATION	YR	MO	SIO2 (MG/L)	CYAN (MG/L)	TOTAL PHOSPHATE (MG/L)	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WN40	83	1	5.0				-.00020	-.010	.010	-.020	-.020	-.05	-.020	-.02	23.00
		3	.1				-.00020	.080	-.010		.100		.020	.10	22.00
		4	.4		.03		-.00020	-.010	-.010	-.020	.090	-.05	-.020	.02	21.00

- INDICATES LESS THAN

TABLE 1.2.2.5-3 (Contd)

CB-TRACT
NPDES WATER QUALITY SAMPLE
QUARTERLY ANALYSES

LOCATION	YR	MO	MO (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L
WN40	83	1	-.020	2.00	-10.0	.0010	2.9	.80	1100.0	1.2	110.0	8.0	-50.0	-.020	-.02
		3	-.020	.90	-10.0	-.0010	1.5	.90	1300.0		80.0	9.0		-.020	-.02
		4	-.020	-.50	-10.0	-.0010	.2	1.10	1400.0	1.1	50.0	1.0	-50.0	-.020	-.02

- INDICATES LESS THAN

TABLE 1.2.2.5-4

CB-TRACT
NPDES FIELD SAMPLE
QUARTERLY MEASUREMENTS

LOCATION	YR	MO	PH PH UNIT	SPECIFIC CONDUCTANCE (UMHOS/CM)	TEMPERATURE (DEG C)
WN40	83	1	8.6	2200.0	9.0
		3	8.7	2040.0	13.0
		4	8.7	2050.0	11.5

TABLE 1.2.2.5-5

C-B TRACT
MONTHLY FIELD MEASUREMENTS
SEEPAGE MONITORING WELLS

WELL	YR	MO	DY	PH (UNITS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	FIELD FLUORIDE (MG/L)
WW13	83	1	4				
			11				
			18				
			25				
			28	7.9	1870.0	11.0	.7
		2	1				
			8				
			15				
			22				
			25	8.3	1570.0	12.0	1.0
		3	1				
			8				
			15				
			22				
			29	8.2	1560.0	11.0	.9
		4	5				
			12				
			19				
			26	8.4	1590.0	11.0	.8
		5	3				
			10				
			19	8.3	1440.0	11.0	.2
			24				
			31				
WW22	83	1	4				
			11				
			18				
			25				
			28	7.6	2650.0	10.0	1.2
		2	1				
			9				
			15				
			23	7.6	2480.0	11.0	.5
		3	1				
			8				
			15				
			22				
			29	7.7	2500.0	11.0	.6
		4	5				
			12				
			19				
			26	7.6	2490.0	11.0	.5

TABLE 1.2.2.5-5 (Contd)

C-B TRACT
MONTHLY FIELD MEASUREMENTS
SEEPAGE MONITORING WELLS

WELL	YR	MO	DY	PH (UNITS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	FIELD FLUORIDE (MG/L)
WW22	83	5	3				
			10				
			18	7.5	2800.0	10.5	.9
			24				
			31				
WW32	83	1	4				
		2	23				
		3	26				
		4	27				
		5	24	7.5	1250.0	12.0	.3

TABLE 1.2.2.5-6

CB-TRACT
QUARTER AND SEMIANNUAL FIELD MEASUREMENTS
SEEPAGE MONITORING WELLS

WELL	YR	MO	PH PH UNIT	SPECIFIC CONDUCTANCE (UMHOS/CM)	TEMPERATURE (DEG C)
WW13	83	5	8.3	1440.0	11.0
WW22	83	5	7.5	2800.0	10.5

TABLE 1.2.2.5-7

CB-TRACT
QUARTER WATER QUALITY ANALYSES
SEEPAGE MONITORING WELLS

WELL	YR	MO	MO (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WW13	83	5	.030		-10.0	-.0100	5.7	.30	1200.0	-.5	300.0	52.0	-50.0	-.020	-.020
WW22	83	5	-.010	1.00	12.0	-.0100	61.0	.20	2300.0	5.5	1400.0	66.0	-50.0	-.020	-.020

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.5-7 (Contd)

CB-TRACT
QUARTER WATER QUALITY ANALYSES
SEEPAGE MONITORING WELLS

WELL	YR	MO	SIO2 (MG/L)	CN (MG/L)	TOTAL PHOSPHATE (MG/L)	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WW13	83	5	2.9		.13		-.00020	-.010		.050	.030	-.05	.100	-.02	1.40
WW22	83	5	3.0		.04		-.00020	-.010		-.020	.040	.20	1.100	5.20	.30

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.5-7 (Contd)

CB-TRACT
QUARTER WATER QUALITY ANALYSES
SEEPAGE MONITORING WELLS

WELL	YR	MO	TOTAL ALK (MG/L CACO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CACO3)	CO3 (MG/L CACO3)	BR (MG/L)	HARDNESS (MG/L CACO3)	NA (MG/L)	MG (MG/L)	CA (MG/L)
WW13	83	5	3900.0	-.100	.200	-.020	.70	3800.0	100.0	.400	310.0	240.0	58.0	28.0
WW22	83	5	76.0	-.100	.600	-.020	-.50	76.0	-1.0	-.100	1300.0	260.0	180.0	230.0

NOTE: - INDICATES LESS THAN

SHAFT AND
MINE WATER

1.2.2.6 Shaft and Mine Water

A water sample was collected in the Service Shaft sump in May 1983. Parameter suites analyzed were the same as deep wells. See data Table 1.2.2.6-1 and 1.2.2.6-2.

TABLE 1.2.2.6-1

CB-TRACT
SHAFT FIELD MEASUREMENTS

SHAFT	YR	MO	PH PH UNIT	SPECIFIC CONDUCTANCE (UMHOS/CM)	TEMPERATURE (DEG C)
WZ22	83	5	8.6	2440.0	21.0

TABLE 1.2.2.6-2

CB-TRACT
SHAFT WATER QUALITY ANALYSES

SHAFT	YR	MO	TOTAL ALK (MG/L CACO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CACO3)	CO3 (MG/L CACO3)	BR (MG/L)	HARDNESS (MG/L CACO3)	NA (MG/L)	MG (MG/L)	CA (MG/L)
WZ22	83	5	1100.0	-.100	.300	-.020	.50	1000.0	100.0	.200	36.0	590.0	5.1	6.1

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.6-2 (Contd)

CB-TRACT
SHAFT WATER QUALITY ANALYSES

SHAFT	YR	MO	MO (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WZ22	83	5	-.010	1.00	-10.0	-.0100	5.6	-.10	1300.0	1.0	150.0	26.0	-50.0	-.020	-.020

NOTE: - INDICATES LESS THAN

TABLE 1.2.2.6-2 (Contd)

CB-TRACT
SHAFT WATER QUALITY ANALYSES

SHAFT	YR	MO	SIO2 (MG/L)	CN (MG/L)	TOTAL PHOSPHATE (MG/L)	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WZ22	83	5	14.0		.06	.40	-.00020	-.010		-.020	.080	.05	-.020	-.02	23.00

NOTE: - INDICATES LESS THAN

SHALE DUMPS

1.2.2.7 Shale Dumps

Refer to section 1.2.1.8 for data results of field measurements sampled from the lysimeters at the shale pile.

SEDIMENTS

1.2.2.8 Sediments

Stream bed sediment characterization samples were not taken during this report period.

WATER QUALITY
ASSURANCE

1.2.4 Water Quality Assurance

Complying with the water monitoring Quality Assurance Program implemented in 1981, an extensive review of all water lab analyses stored in the RAMIS data base water quality files are continuing to be checked for incorrect values entered. Data screening is a method for detecting errors occurring from field sampling through data handling and reporting. Corrected data tables will be presented in the January 1984 Environmental Monitoring Report.

Fluoride analyses are being conducted at the C-b Tract field lab and later at the Grand Junction lab for A/B discharge samples taken weekly. See Table 1.2.4-1. The instrumentation utilized is different in electronic sensitivity, therefore analysis conducted at C-b Tract field lab may not be as accurate as the Grand Junction lab. Field fluroide analysis does aid us in detecting high fluoride concentrations being discharged into Little Gardenhire via Piceance Creek.

Other aspects of the water quality assurance program for sampling methodology and logging, field tests, analytical methods and quality control in the laboratory, data record keeping and inspection, and outlier detection are ongoing procedures to assure that the end results of our data sampling are correct to the best of our knowledge.

The procedures formulated in the Quality Assurance Program for Hydrology are designed to comply with monitoring and analytical practices approved by the Environmental Protection Agency, the United States Geological Survey and other appropriate groups.

In conjunction with implementation of the Quality Assurance Program, the Cathedral Bluffs' Environmental Services Department carries out routine assessment inspections of the field sites to evaluate the operation of the program. These inspections have been helpful in maintaining full compliance with the quality assurance procedures, making necessary adjustments to the program, and introducing alterations suggested by the experience of the field monitoring personnel.

TABLE 1.2.4-1

FLUORIDE FIELD AND LAB ANALYSES OF NPDES DISCHARGE SAMPLES

LOC	YEAR	MONTH	DAY	FIELD FLUORIDE (MG/L)	FLUORIDE (MG/L)
WN40	83	1	5	20.5	23.00
			13	20.7	25.00
			20	22.7	23.00
			27	22.1	23.00
		2	3	20.2	25.00
			10	20.9	25.00
			17	21.3	26.00
			24		27.00
		3	3	21.0	22.00
			17	22.0	22.00
			24	21.0	22.00
			30	20.0	23.00
		4	14	20.3	21.00
			21	21.5	20.00
			27	22.1	18.00
		5	5	22.6	16.00
			12		27.00
			19	25.3	23.00
			26		24.00

GEOTHERMAL
SURVEYS, INC.

DOWNHOLE TEMPERATURE LOG OF

COREHOLES 12X-12, 22X-1 AND 43X-2

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16 May 1983

* THERMAL
EXPLORATION

TABLE OF CONTENTS

	Page
Introduction	1
Method	1
Results	1
Corehole 21X-12	3
Corehole 22X-1	3
Corehole 43X-2	6
Discussion	6
Corehole Recompletions	9
Appendix	

LIST OF FIGURES AND TABLE

		Page
FIGURE 1.	Location Map - Coreholes 21X-12, 22X-1 and 43X-2 ----------	2
FIGURE 2.	Temperature Log - Corehole 21X-12 -------	4
FIGURE 3.	Temperature Log - Corehole 22X-1 --------	5
FIGURE 4.	Temperature Log - Corehole 43X-2 --------	7
FIGURE 5.	Temperature Log - Coreholes 21X-12, 22X-1 and 43X-2 ----------	8
TABLE 1	----------	9

TABLE OF CONTENTS

	Page
Introduction	1
Method	1
Results	1
Corehole 21X-12	3
Corehole 22X-1	3
Corehole 43X-2	6
Discussion	6
Corehole Recompletions	9
Appendix	

LIST OF FIGURES AND TABLE

		Page
FIGURE 1.	Location Map - Coreholes 21X-12, 22X-1 and 43X-2 ----------	2
FIGURE 2.	Temperature Log - Corehole 21X-12 -------	4
FIGURE 3.	Temperature Log - Corehole 22X-1 --------	5
FIGURE 4.	Temperature Log - Corehole 43X-2 --------	7
FIGURE 5.	Temperature Log - Coreholes 21X-12, 22X-1 and 43X-2 ----------	8
TABLE 1	----------	9

Introduction

On April 14 and 15, 1983, G. Pavlov of Geothermal Surveys, Inc., South Pasadena, California, performed downhole temperature logging of coreholes 21X-12, 22X-1 and 43X-2 (Figure 1). The purpose was to aid determination of the final scheme for completion of these coreholes as ground water monitors.

Method

The method of temperature logging used for the present survey is described in GSI report, Preliminary Interpretation of Thermal Gradient Logging, July 1982. In comparison with the temperature logging of the same corehole during 1981, the intervals between the readings were changed from 20 to 10 ft. This provided more details of the temperature distribution in the vicinity of the wells.

The basis for interpretation of the results is that the temperature characteristics of the geologic formations are different depending on their structure, texture, composition, content of the moisture, and ground water movement. These differences may be revealed by departures of the measured temperature gradient from the average Earth temperature gradient.

Results

The temperature patterns measured in the coreholes quite closely repeat the results obtained with the survey performed during October of 1981. There are some observed differences between the results of both surveys, and these suggest some changes in the ground water regime between 1981 and 1983. The changes might be caused by Reinjection, by the flooding of the V/E Shaft, or both.

Detailed interpretation of the temperature logs of the coreholes are provided in the Appendix of this report.

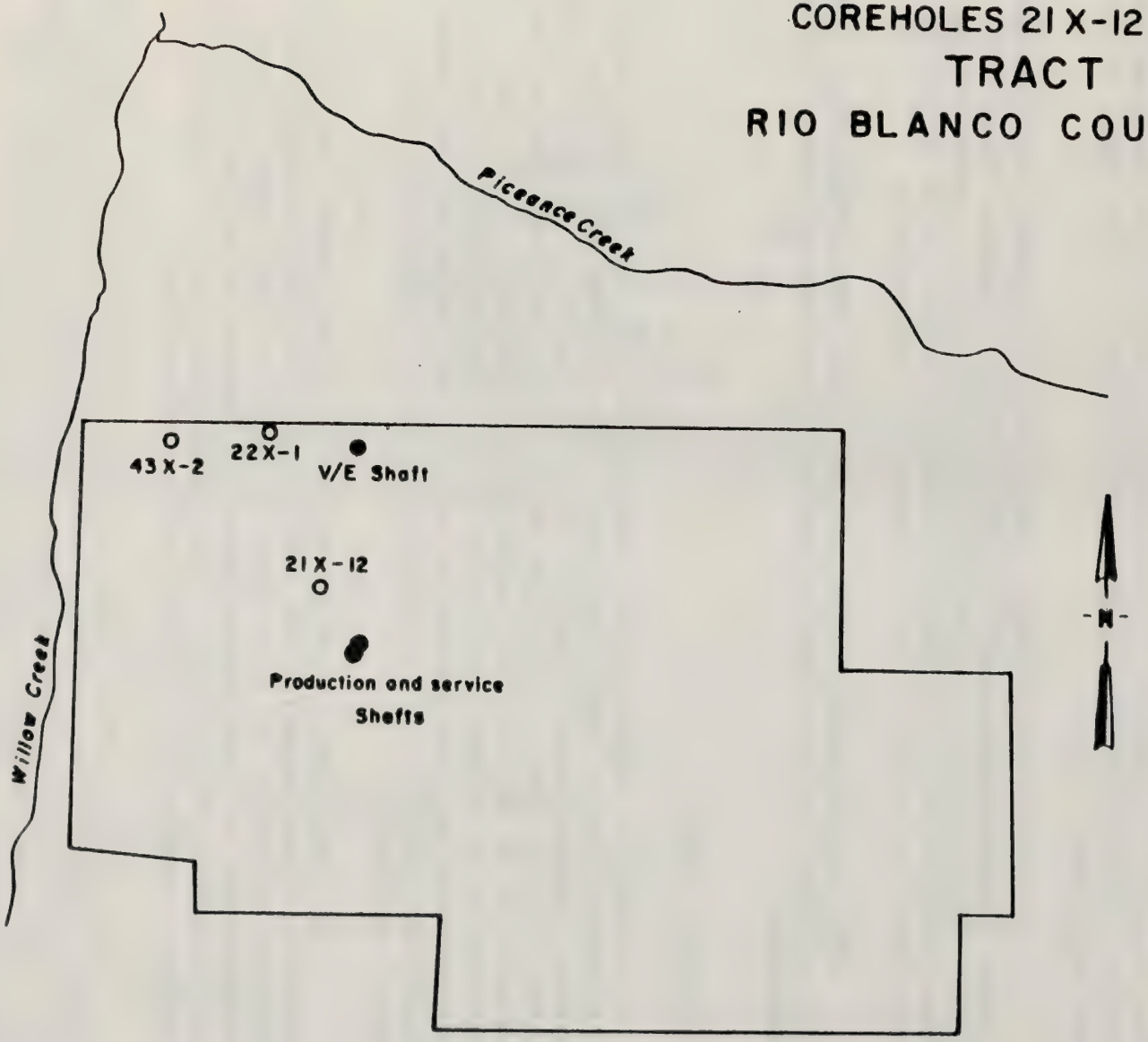
FIGURE 1

LOCATION MAP

COREHOLES 21X-12, 22X-1, 43X-2

TRACT C-b

RIO BLANCO COUNTY, COLORADO



Corehole 21X-12

Figure 2 presents the temperature curves of surveys both in 1981 and 1983. The temperatures in the second survey are about 0.05 to 0.3°C higher than in the first survey. The differences in the upper part of the curve are greater than in the lower part.

Three major zones could be separated according to the values of the temperature gradient. The uppermost zone reaches down to about 450 ft and has a temperature gradient of 0.9°C per hundred feet. Two aquifers are indicated on the temperature curve at intervals 360-380 ft and 440-460 ft. Descending crossflow between the aquifers can explain the vertical gradient. The flat portion of the temperature curve indicates higher water temperature in the lower of the two aquifers.

A second zone extends from 450 ft to about 750 ft depth with a temperature gradient of 0.3°C per hundred feet. It shows alternating zones of greater and lesser ground water flow indicating thin aquifer zones of about 10 ft to 20 ft, separated by 10 ft to 20 ft zones of little flow.

The temperature curve of the third zone, extending from 750 to 1500 ft, is close to vertical and shows several minor aquifers.

Corehole 22X-1

Figure 3 presents the results of the temperature logs performed during 1981 and 1983. The differences of the overall temperature gradient differentiates the profile into three major zones. The uppermost zone extends from 300 to about 800 ft depth with temperature gradient 0.52°C per hundred feet. More active aquifer with slightly higher temperature of the ground water, is indicated by the temperature curve at 390-450 ft. The rest of this interval has some minor aquifers.

A second zone extends from 800 ft to about 1100 ft in depth and has temperature gradient 0.43°C per hundred feet. Aquifer activity is indicated in most of this zone. The temperature of the ground water increases more than 0.5°C in the interval 800-850 ft. The temperature of the second survey is about 0.3°C lower than in the first.

The lowest zone, from 1100 ft to 1400 ft, has a slightly higher temperature aquifer, as indicated by flattening of the temperature curve between the Four Senators and A-Groove at 1100-1180 ft depth. Below 1180 ft, the steep gradient shows moderate higher temperature water flow.

FIGURE 2

TEMPERATURE LOG

COREHOLE 21X-12

EL. 6795.6'

TRACT C-b

RIO BLANCO COUNTY, COLORADO

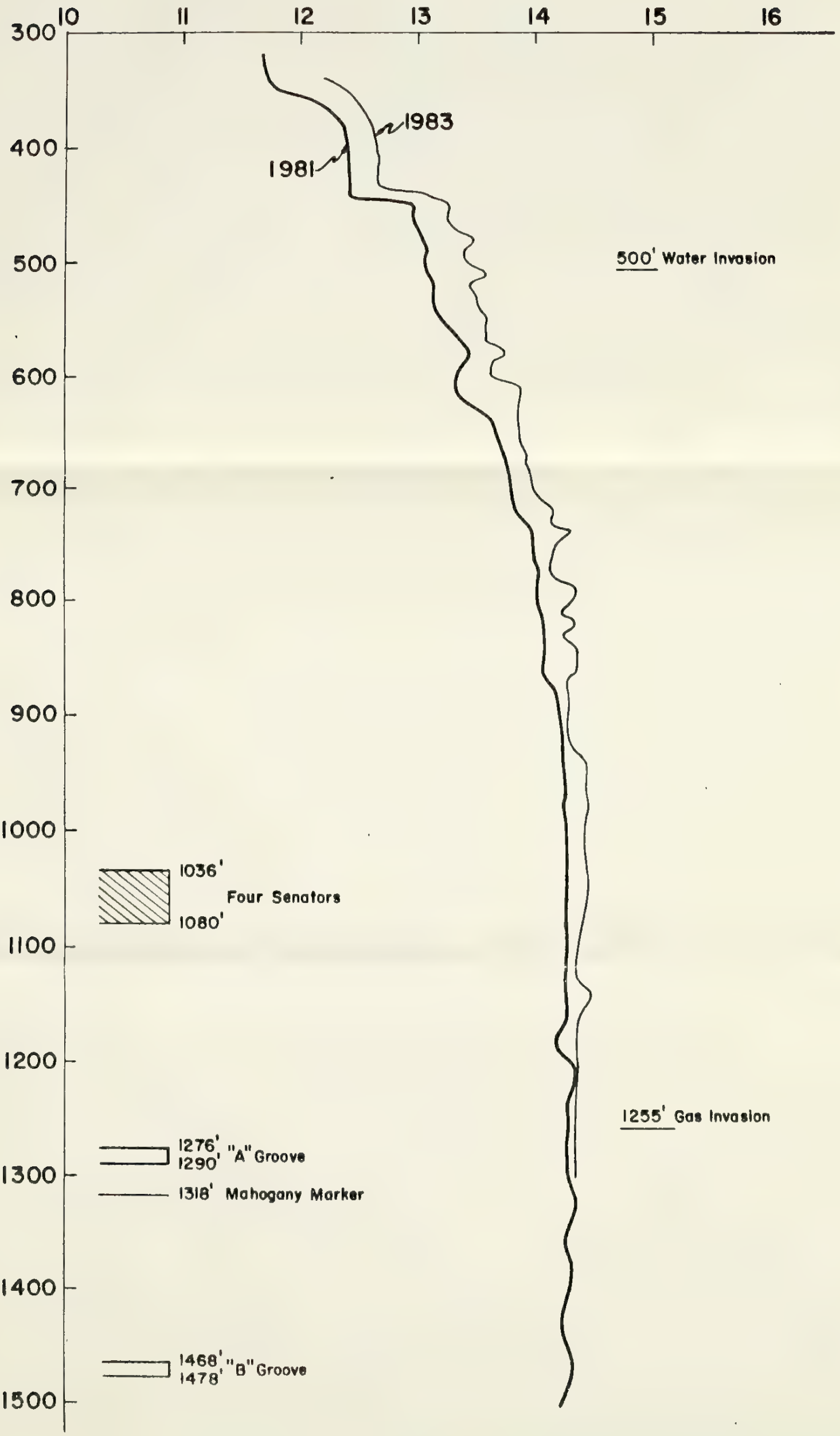


FIGURE 3

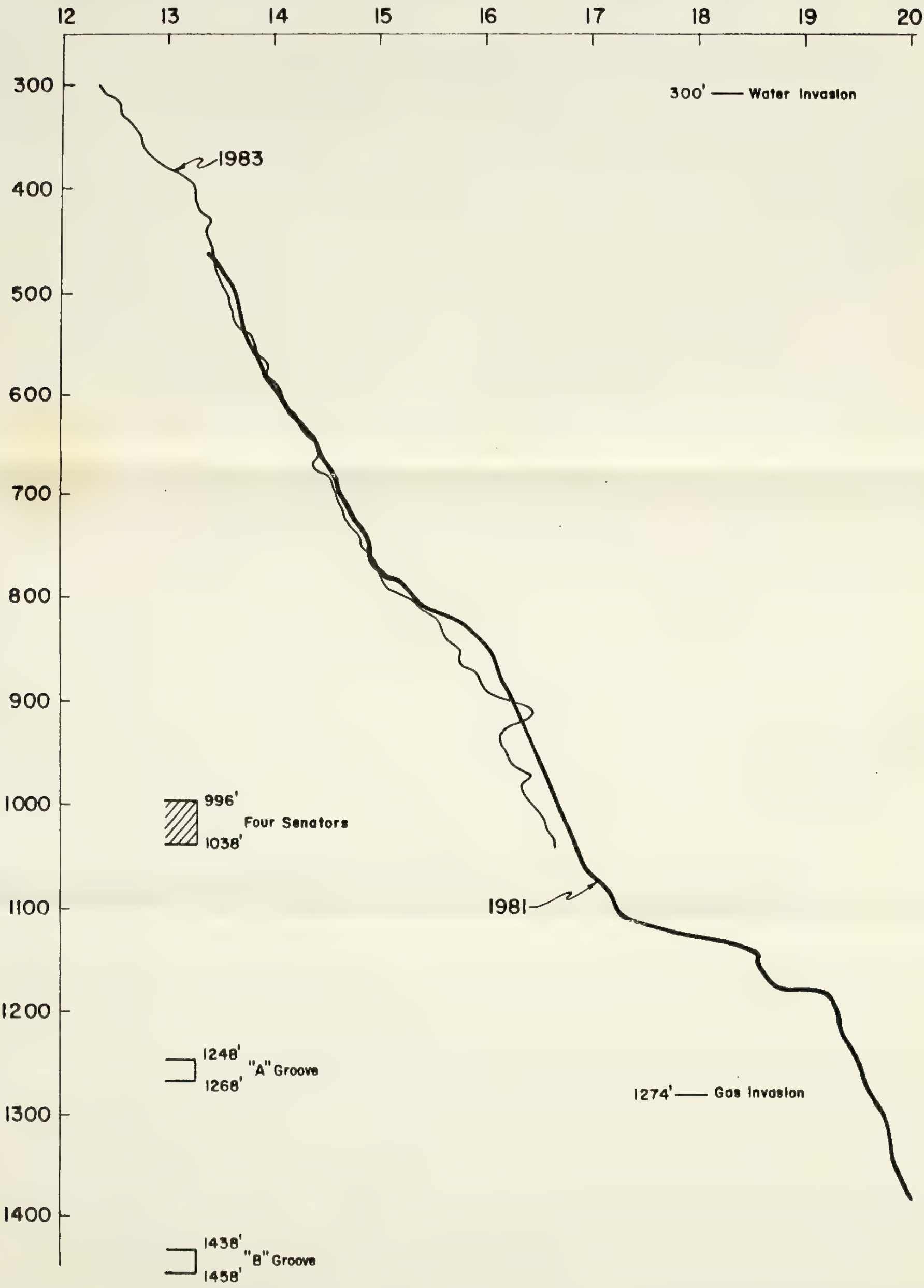
TEMPERATURE LOG

COREHOLE 22 X-1

EL. 6704'

TRACT C-b

RIO BLANCO COUNTY, COLORADO



Corehole 43X-2

Figure 4 presents the results of the temperature logging of Corehole 43X-2. The overall temperature gradient is 0.5°C per hundred feet. In the zones with higher aquifer activity, the second logging shows in general lower temperatures suggesting some change in the ground water flow.

Zones with active ground water movement are indicated at depths 320-490 ft, 460-590 ft, 670-810 ft, 820-970 ft and 980-1040 ft. The steep temperature gradient in the Mahogany Zone could be caused by the crossflow between minor aquifers.

Discussion

Figure 5 presents the results of the temperature downhole logging performed in April 1983. This plot permits more convenient comparison of the differences of the temperatures in the coreholes.

Coreholes 22X-1 and 43X-2 exhibit close overall temperature gradient. The departure of the temperature in Corehole 21X-12 below 600 ft might depend on several reasons:

- significant amount of gas invading the corehole;
- communication among aquifers between 600 ft and 1300 ft;
- changes in ground water flow due to the mining operations in the vicinity of Corehole 21X-12.

Several temperature anomalies can be correlated in the several coreholes. At about 430 ft, Coreholes 21X-12 and 43X-2 have high temperature gradients which might be caused by inflow of higher temperature water. Similar behavior is observed in Corehole 22X-1 at 380 ft depth. In the interval 430-600 ft, the temperature characteristics of the formation in all three coreholes are comparatively similar.

Some higher temperature water inflow may be taking place at about 800 ft depth in Coreholes 22X-1 and 43X-2. Another similar zone may be delineated at 950 ft in Corehole 43X-2. The 1981 temperature log of Corehole 22X-1, shows a strong positive temperature anomaly with the same characteristic at about 1100 ft depth. It is very likely that both anomalies are caused by ground water flow with temperature significantly higher than in the overlying materials.

FIGURE 4

TEMPERATURE LOG

COREHOLE 43 X-2

EL. 6693'

TRACT C-b

RIO BLANCO COUNTY, COLORADO

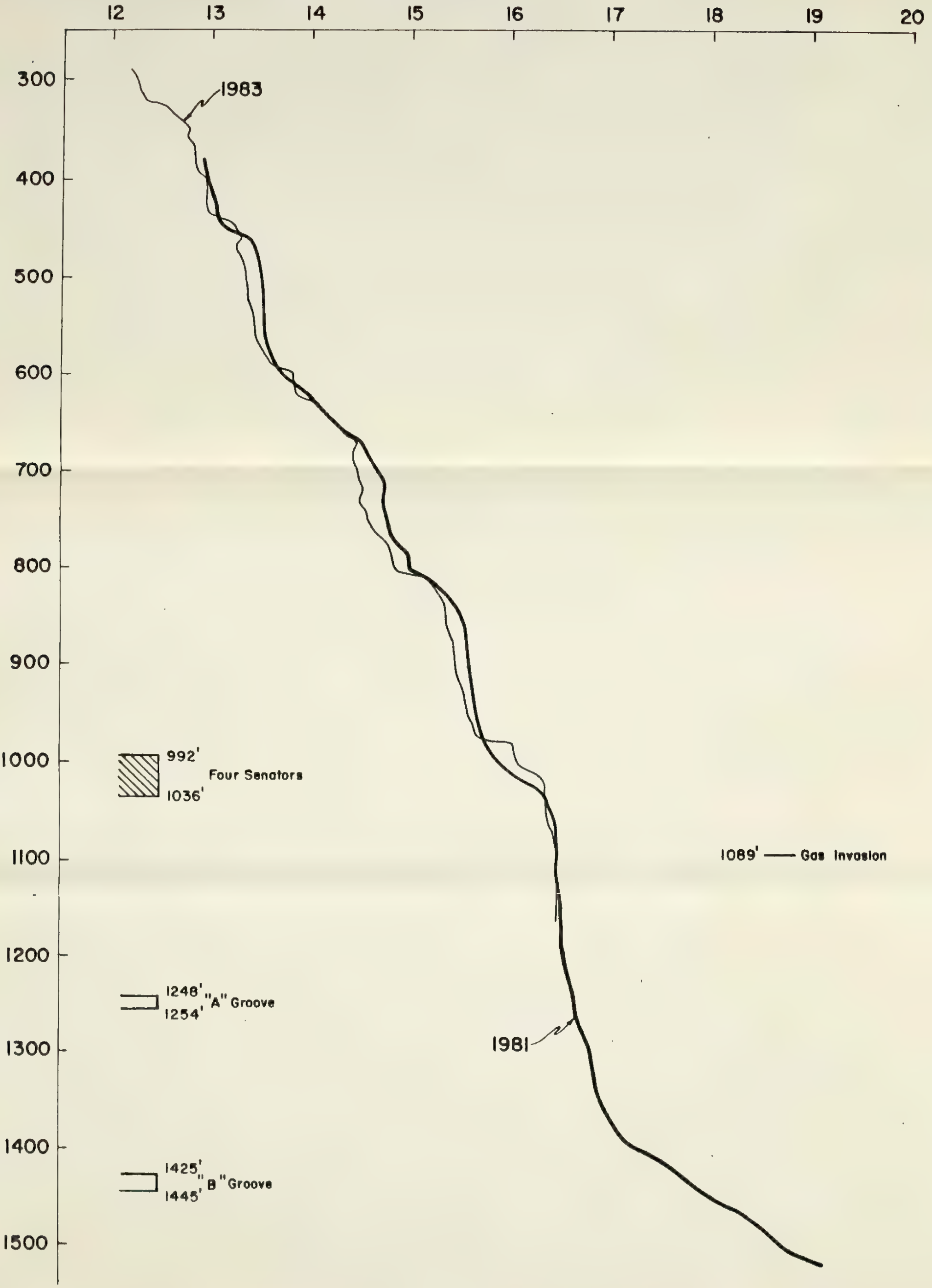


FIGURE 5

TEMPERATURE LOG

COREHOLES 21 X-12, 22 X-1, 43 X-2

April, 1983

TRACT C-b

RIO BLANCO COUNTY, COLORADO

Corehole Recompletions

Table 1 presents zones of ground water activity recommended for monitoring. Aquifer zones to be monitored were based on location relative to the C-b Tract activities and the present status of monitors within the aquifers in other nearby wells. The specific zones within the aquifers to be monitored were based on the interpretation of the thermal logs, other geophysical logs, and other data relating to Tract hydrology.

TABLE 1

Corehole Number	Aquifer to be Monitored	Zone to be Monitored Depth in feet	Elev. in feet
21X-12 Elev. 6795'	Lpc 3	1470 - 1490	5305 - 5325
	Uinta Unconfined	0 - 620	6175 - 6795
22X-1 Elev. 6704'	Upc 2	1080 - 1100	5604 - 5624
	Unita Confined	780 - 800	5904 - 5924
	Uinta Unconfined	0 - 550	6154 - 6704
43X-2 Elev. 6693'	Lpc 3	1440 - 1460	5233 - 5253
	Upc 2	1200 - 1230	5463 - 5493

A P P E N D I X

COREHOLE 21X-12

Interval	Interpretation
320' - 350'	Possible aquifer activity in the upper part of the interval. The lower part probably consists of relatively impermeable material.
350' - 380'	The caliper log indicates looser formation, possible aquifer. The temperature shows transitional character from lower to higher values. This could occur if the temperature of the water in this aquifer is higher than that of the formations above.
380' - 440'	The vertical temperature curve suggests that downflow between the aquifers at depths 380 and 450 ft is taking place. The formations do not vary much in density and do not yield water with different temperature. That suggests aquitard characteristics.
440' - 460'	Dramatic change of the temperature indicates a flow of water with about 0.5°C higher temperature. Density log shows sudden drop in the density of materials which coincides with increase of diameter of the hole. The gamma ray log has a local minimum. Together these factors suggest the presence of formation with good aquifer characteristics.
460' - 580'	No large significant temperature trends are observed. The density log indicates consistent density of the formation at about 1.75 g/cc. Gamma ray log indicates an increase in clay content. Variable but moderate aquifer activity.
580' - 650'	A negative temperature anomaly. The more detailed survey limits the lower end of the anomaly at depth 610 ft. At that depth, slight increase of the hole diameter and decrease in density of the formation is observed. Based on this, an active aquifer can be differentiated, although the gamma ray log indicates an increase in clay content. Downflow movement of the water probably occurs below this interval.
650' - 850'	All geophysical logs exhibit only slight variations. The average temperature gradient becomes steeper which might be an indication of some ground water movement.

850' - 1500'	The temperature curve approaches vertical and does not yield much information which could be interpreted confidently.

COREHOLE 22X-1

Interval	Interpretation
300' - 390'	The temperature curve indicates two minor aquifers at 320 ft and 350 ft. SP log shows alternatively high and low anomalies in the interval 320 - 335 ft and low anomaly at 350 ft.
390' - 450'	Possible flow of ground water with slightly higher than surrounding temperatures. The values of SP and gamma ray logs increase below 400 ft.
450' - 650'	No significant aquifer activity is indicated by the geophysical logs.
650' - 780'	The temperature gradient becomes steeper which suggests a slight increase of the aquifer activity.
780' - 870'	The temperature increases rapidly over 0.5°C. Over the interval 800-870 ft, the SP is low and density is high. The gamma ray intensity is relatively low. This could be an indication of decreased content of shale. The low velocity of the fluid movement into the well shows that the transient temperatures in the interval 800-850 ft indicate increased aquifer activity.
870' - 1060'	Moderate aquifer activity. Below 950 ft density increases with frequent low anomalies which seems peculiar for the Parachute Creek Formation. The caliper log shows increase of irregularities below 1010 ft which is related to the Mahogany Zone in all three coreholes. The temperature of the second survey is considerably lower than that of the first.

1060' - 1100'	Low density with high gamma ray activity and positive SP anomaly characterizes the presence of tuff in the interval 1060-1080 ft. Immediately below these, a very low density anomaly is probably related to a minor aquifer. Very slight variation in the temperature observed in the lower part of the interval is caused probably by minor aquifer activity.
1100' - 1200'	Transient temperatures and low fluid velocity indicate significant aquifer activity in this interval. The temperature increases about 1.5°C. The positive anomaly in the interval 1140-1180 ft is caused by formation with lower permeability, confirmed by positive SP anomaly.
1200' - 1400'	No significant anomalies in the temperature field were observed. Moderate aquifer activity with higher temperature of the ground water.

COREHOLE 43X-2

Interval	Interpretation
290' - 320'	Steep temperature gradient indicates some ground water activity.
320' - 360'	The size of borehole increases. Density of the formation becomes lower. The transient temperature could be caused by inflow of water with higher temperature.
360' - 430'	Density of the formation slightly increases. Some aquifer activity.
430' - 460'	Transitional zone caused by materials with low permeability.
460' - 580'	Steep temperature gradient, indicating aquifer activity.

580' - 620'	Close to normal temperature gradient. Moderate aquifer activity.
670' - 800'	Increased borehole diameter. Steep temperature gradient. Significant ground water activity.
800' - 840'	Slightly higher than normal temperature gradient. Increased density of the formation. Smaller borehole diameter. Very little ground water activity.
840' - 970'	Steep temperature gradient. Active aquifer.
970' - 1030'	The higher temperature of the second logging is a possible indication of inflow of water with higher temperature.
1030' - 1380'	The steep temperature gradient in the Mahogany Zone may be caused by local aquifers. These are indicated by SP and caliper anomalies at 1010-1020, 1030-1040, 1070-1080, 1115-1125, 1170, 1200 and 1320 ft.
1380' - 1500'	Temperature gradient is higher than normal. This is probably a transition zone from the anomalous lower temperature of the previous interval to a normal temperature.